THOMSON

SERVICE MANUAL

Main Section
- Specifications
- Preparation for Servicing
- Adjustment Procedures
- Schematic Diagrams
- CBA
- Exploded views
- Parts List

When servicing the deck mechanism, refer to MK14 Deck Mechanism Section.

Deck Mechanism Part No.: N25E1FL

DVD / VIDEO CASSETTE RECORDER

CB1000

VHS PAL SECAM

MAIN SECTION

DVD / VIDEO CASSETTE RECORDER

CB1000

Main Section

- **Specifications**
- **Preparation for Servicing**
- **Adjustment Procedures**
- **Schematic Diagrams**
- **CBA**
- **Exploded Views**
- **Parts List**

TABLE OF CONTENTS

Specifications 1-1-1
Laser Beam Safety Precautions 1-2-1
Important Safety Precautions 1-3-1
Standard Notes for Servicing 1-4-1
Preparation for Servicing 1-5-1
Cabinet Disassembly Instructions 1-6-1
Electrical Adjustment Instructions 1-7-1
How to Initialize the DVD recorder & VCR 1-8-1
Firmware Renewal Mode 1-9-1
Function Indicator Symbols 1-10-1
Troubleshooting 1-11-1
Block Diagrams 1-12-1
Schematic Diagrams / CBA and Test Points 1-13-1
Waveforms 1-14-1
Wiring Diagram 1-15-1
IC Pin Function Descriptions 1-16-1
Lead Identifications 1-17-1
Exploded Views 1-18-1
Mechanical Parts List 1-19-1
Electrical Parts List 1-20-1

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SPECIFICATIONS

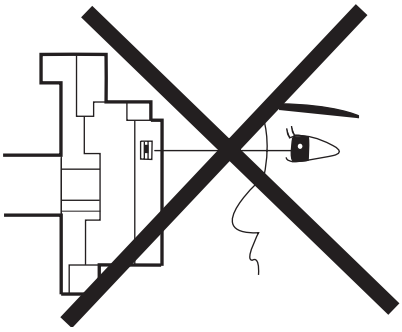
General	
VCR video heads	Four heads
Power requirements	220–240 V~ ± 10 %, 50 Hz ± 0.5 %
Power consumption	35 W
Power consumption (standby)	0.93 W
Weight	5.0 kg
Dimensions (width x height x depth)	435 x 99.5 x 388 mm
Operating temperature	5°C to 40°C
Operating humidity	Less than 80 % (no condensation)
TV system	PAL-B/G, SECAM-LL'
Recording	
Recording format	Video Recording (VR) format (DVD-RW only), video format (DVD-RW, DVD-R)
Recordable discs	DVD-ReWritable, DVD-Recordable
Video recording format	
Sampling frequency	13.5 MHz
Compression format	MPEG
Audio recording format	
Sampling frequency	48 kHz
Compression format	Dolby Digital
Tuner	
Analogue channels	
L (SECAM L)	F1 - E69
BG (PAL B/G)	E2 - E69
DVB-T channels	
VHF	F5 - F10
UHF	E21 - E69
Input/Output	
Front Panel :	
DV input DV 4-pin jack	IEEE 1394
USB input TYPE A	USB 2.0 Bus power current: MAX. 500 mA
Rear Panel :	
VHF/UHF antenna input/output terminal	75 Ω
Audio input /output Input /output level	Two 21-pin scart sockets (AV1, AV2) 2 Vrms (input impedance: more than 10 kΩ / output impedance: less than 1 kΩ)
Video input /output Input /output level	Two 21-pin scart sockets (AV1, AV2) 1 Vp-p (75 Ω) each
Component video output Output level	Three RCA connectors Y: 1.0 Vp-p (75 Ω) P_B/C_B, P_R/C_R: 0.7 Vp-p (75 Ω) each
Audio output Output level	Two RCA connectors 2 Vrms (output impedance: 680 Ω)
Digital audio output Output level	One Coaxial pin jack 500 mVp-p (75 Ω)
HDMI output	HDMI jack

Note

The specifications and design of this product are subject to change without notice.

LASER BEAM SAFETY PRECAUTIONS

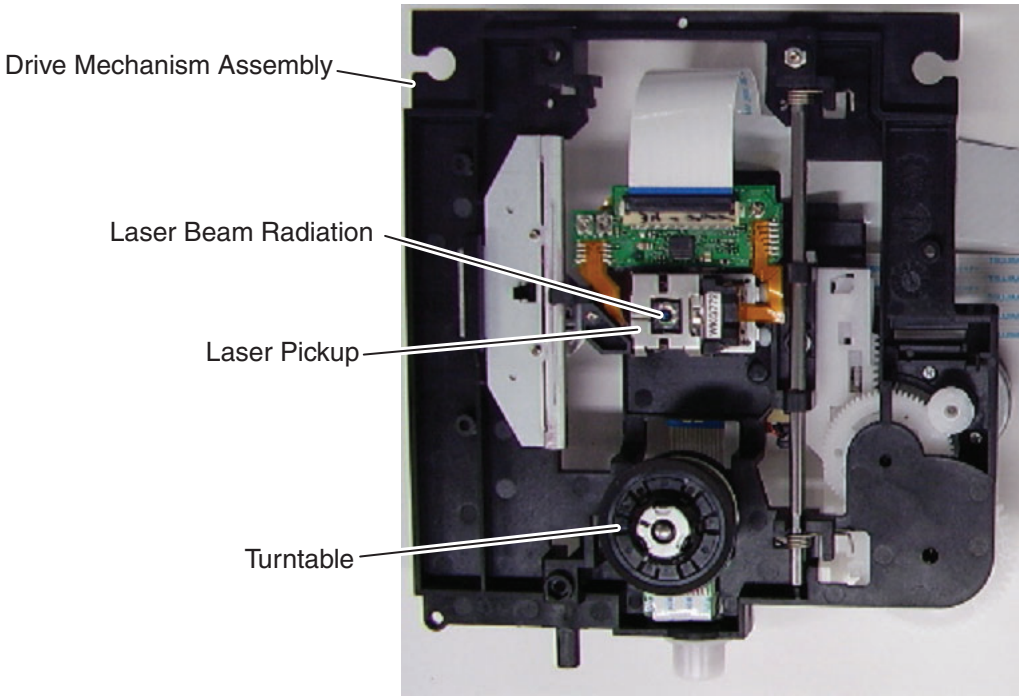
This DVD player uses a pickup that emits a laser beam.

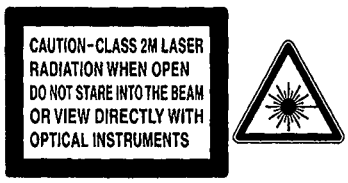


Do not look directly at the laser beam coming from the pickup or allow it to strike against your skin.

The laser beam is emitted from the location shown in the figure. When checking the laser diode, be sure to keep your eyes at least 30 cm away from the pickup lens when the diode is turned on. Do not look directly at the laser beam.

CAUTION: Use of controls and adjustments, or doing procedures other than those specified herein, may result in hazardous radiation exposure.





Location: Inside Top of DVD mechanism.

IMPORTANT SAFETY PRECAUTIONS

Product Safety Notice

Some electrical and mechanical parts have special safety-related characteristics which are often not evident from visual inspection, nor can the protection they give necessarily be obtained by replacing them with components rated for higher voltage, wattage, etc. Parts that have special safety characteristics are identified by a ⚠ on schematics and in parts lists. Use of a substitute replacement that does not have the same safety characteristics as the recommended replacement part might create shock, fire, and/or other hazards. The Product's Safety is under review continuously and new instructions are issued whenever appropriate. Prior to shipment from the factory, our products are carefully inspected to confirm with the recognized product safety and electrical codes of the countries in which they are to be sold. However, in order to maintain such compliance, it is equally important to implement the following precautions when a set is being serviced**.**

Precautions during Servicing

A. Parts identified by the ⚠ symbol are critical for safety. Replace only with part number specified.

B. In addition to safety, other parts and assemblies are specified for conformance with regulations applying to spurious radiation. These must also be replaced only with specified replacements. Examples: RF converters, RF cables, noise blocking capacitors, and noise blocking filters, etc.

C. Use specified internal wiring. Note especially:

1) Wires covered with PVC tubing
2) Double insulated wires
3) High voltage leads

D. Use specified insulating materials for hazardous live parts. Note especially:

1) Insulation tape
2) PVC tubing
3) Spacers
4) Insulators for transistors

E. When replacing AC primary side components (transformers, power cord, etc.), wrap ends of wires securely about the terminals before soldering.

F. Observe that the wires do not contact heat producing parts (heatsinks, oxide metal film resistors, fusible resistors, etc.).

G. Check that replaced wires do not contact sharp edges or pointed parts.

H. When a power cord has been replaced, check that 5 - 6 kg of force in any direction will not loosen it.

I. Also check areas surrounding repaired locations.

J. Be careful that foreign objects (screws, solder droplets, etc.) do not remain inside the set.

K. When connecting or disconnecting the internal connectors, first, disconnect the AC plug from the AC outlet.

L. Be sure to confirm the FAN motor has completely stopped when disconnecting the AC cord for termination processing is activated during inner P-on immediately after turning Power off.

M. When reassembling, be sure to use the original screws or specified screws listed in the parts list.

N. This unit is classified as a CLASS 1 LASER PRODUCT.

Safety Check after Servicing

Examine the area surrounding the repaired location for damage or deterioration. Observe that screws, parts, and wires have been returned to their original positions. Afterwards, do the following tests and confirm the specified values to verify compliance with safety standards.

1. Clearance Distance

When replacing primary circuit components, confirm specified clearance distance (d) and (d') between soldered terminals, and between terminals and surrounding metallic parts. (See Fig. 1)

Table 1 : Ratings for selected area

AC Line Voltage	Clearance Distance (d), (d')
230 V	≥ 3.2 mm(d) ≥ 6.0 mm(d')

Note: This table is unofficial and for reference only. Be sure to confirm the precise values.

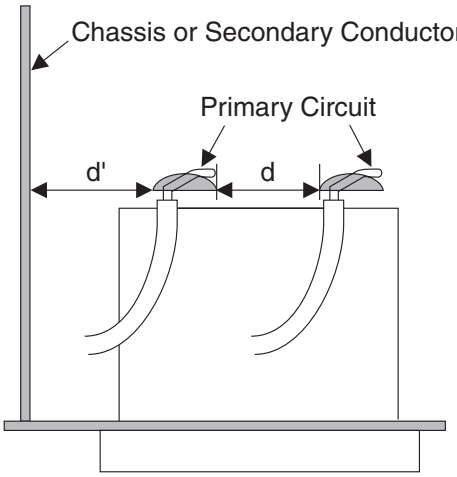


Fig. 1

2. Leakage Current Test

Confirm the specified (or lower) leakage current between B (earth ground, power cord plug prongs) and externally exposed accessible parts (RF terminals, antenna terminals, video and audio input and output terminals, microphone jacks, earphone jacks, etc.) is lower than or equal to the specified value in the table below.

Measuring Method (Power ON) :

Insert load Z between B (earth ground, power cord plug prongs) and exposed accessible parts. Use an AC voltmeter to measure across the terminals of load Z. See Fig. 2 and the following table.

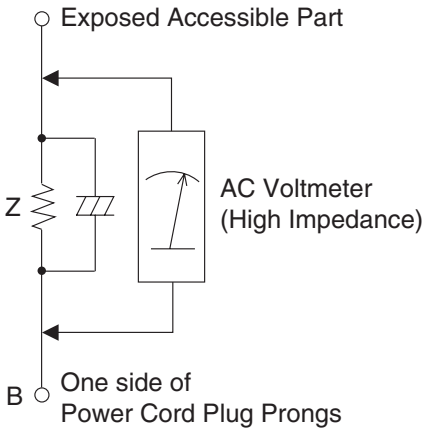


Fig. 2

Table 2: Leakage current ratings for selected areas

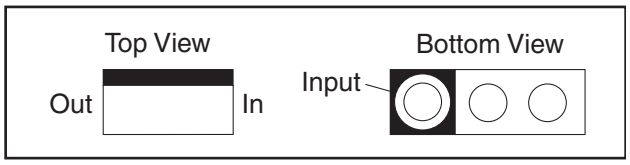
AC Line Voltage	Load Z	Leakage Current (i)	One side of power cord plug prongs (B) to:
230 V	2kΩ RES. Connected in parallel	i≤0.7mA AC Peak i≤2mA DC	RF or Antenna terminals
	50kΩ RES. Connected in parallel	i≤0.7mA AC Peak i≤2mA DC	A/V Input, Output

Note: This table is unofficial and for reference only. Be sure to confirm the precise values.

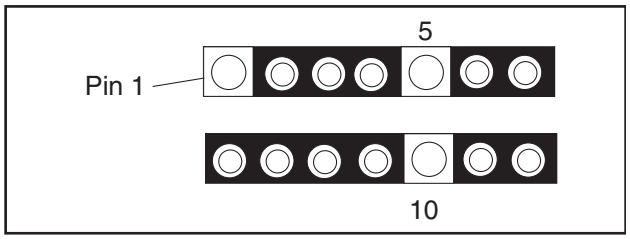
STANDARD NOTES FOR SERVICING

Circuit Board Indications

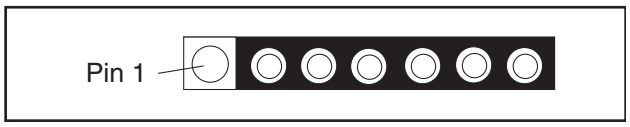
1. The output pin of the 3 pin Regulator ICs is indicated as shown.



2. For other ICs, pin 1 and every fifth pin are indicated as shown.

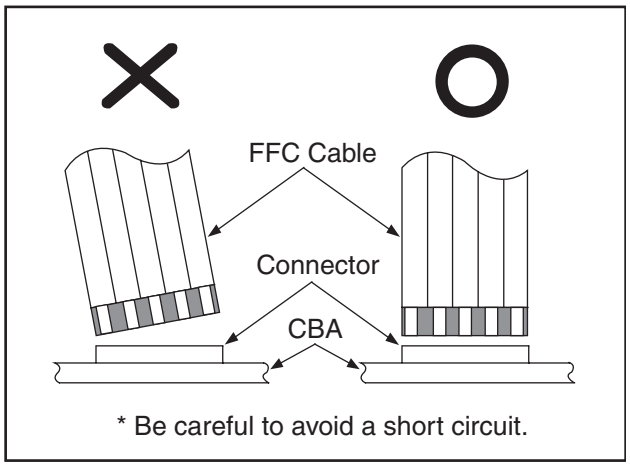


3. The 1st pin of every male connector is indicated as shown.



Instructions for Connectors

1. When you connect or disconnect the FFC (Flexible Foil Connector) cable, be sure to first disconnect the AC cord.
2. FFC (Flexible Foil Connector) cable should be inserted parallel into the connector, not at an angle.



Pb (Lead) Free Solder

When soldering, be sure to use the Pb free solder.

How to Remove / Install Flat Pack-IC

1. Removal

With Hot-Air Flat Pack-IC Desoldering Machine:

1. Prepare the hot-air flat pack-IC desoldering machine, then apply hot air to the Flat Pack-IC (about 5 to 6 seconds). (Fig. S-1-1)

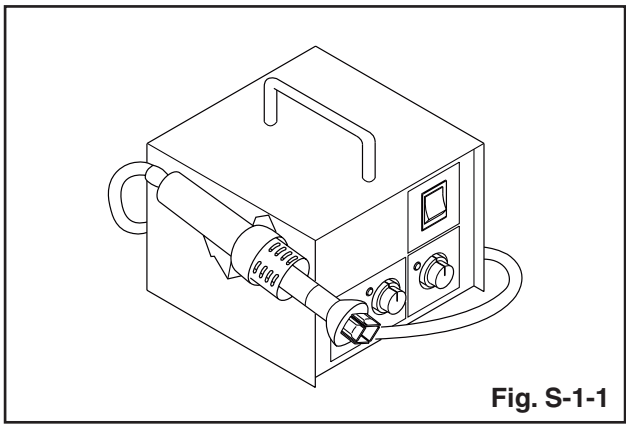


Fig. S-1-1

2. Remove the flat pack-IC with tweezers while applying the hot air.
3. Bottom of the flat pack-IC is fixed with glue to the CBA; when removing entire flat pack-IC, first apply soldering iron to center of the flat pack-IC and heat up. Then remove (glue will be melted). (Fig. S-1-6)
4. Release the flat pack-IC from the CBA using tweezers. (Fig. S-1-6)

CAUTION:

1. The Flat Pack-IC shape may differ by models. Use an appropriate hot-air flat pack-IC desoldering machine, whose shape matches that of the Flat Pack-IC.
2. Do not supply hot air to the chip parts around the flat pack-IC for over 6 seconds because damage to the chip parts may occur. Put masking tape around the flat pack-IC to protect other parts from damage. (Fig. S-1-2)

3. The flat pack-IC on the CBA is affixed with glue, so be careful not to break or damage the foil of each pin or the solder lands under the IC when removing it.

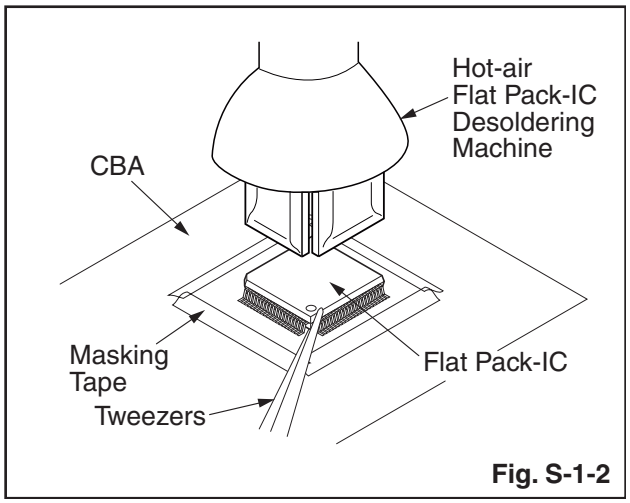


Fig. S-1-2

With Soldering Iron:

1. Using desoldering braid, remove the solder from all pins of the flat pack-IC. When you use solder flux which is applied to all pins of the flat pack-IC, you can remove it easily. (Fig. S-1-3)

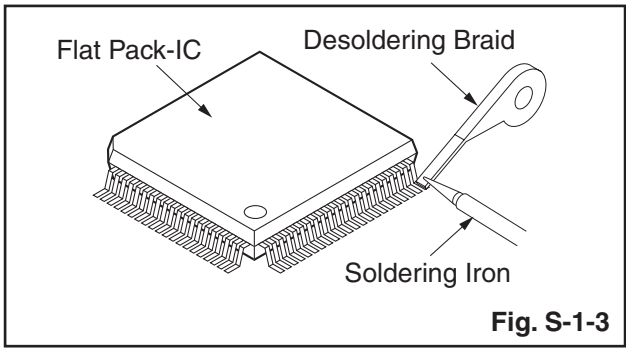


Fig. S-1-3

2. Lift each lead of the flat pack-IC upward one by one, using a sharp pin or wire to which solder will not adhere (iron wire). When heating the pins, use a fine tip soldering iron or a hot air desoldering machine. (Fig. S-1-4)

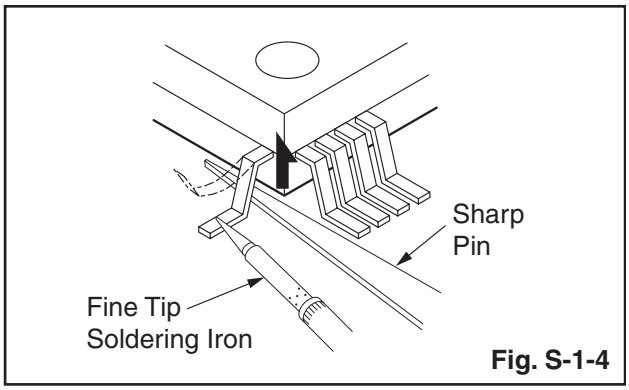


Fig. S-1-4

3. Bottom of the flat pack-IC is fixed with glue to the CBA; when removing entire flat pack-IC, first apply soldering iron to center of the flat pack-IC and heat up. Then remove (glue will be melted). (Fig. S-1-6)
4. Release the flat pack-IC from the CBA using tweezers. (Fig. S-1-6)

With Iron Wire:

1. Using desoldering braid, remove the solder from all pins of the flat pack-IC. When you use solder flux which is applied to all pins of the flat pack-IC, you can remove it easily. (Fig. S-1-3)
2. Affix the wire to a workbench or solid mounting point, as shown in Fig. S-1-5.
3. While heating the pins using a fine tip soldering iron or hot air blower, pull up the wire as the solder melts so as to lift the IC leads from the CBA contact pads as shown in Fig. S-1-5.
4. Bottom of the flat pack-IC is fixed with glue to the CBA; when removing entire flat pack-IC, first apply soldering iron to center of the flat pack-IC and heat up. Then remove (glue will be melted). (Fig. S-1-6)
5. Release the flat pack-IC from the CBA using tweezers. (Fig. S-1-6)

Note: When using a soldering iron, care must be taken to ensure that the flat pack-IC is not being held by glue. When the flat pack-IC is removed from the CBA, handle it gently because it may be damaged if force is applied.

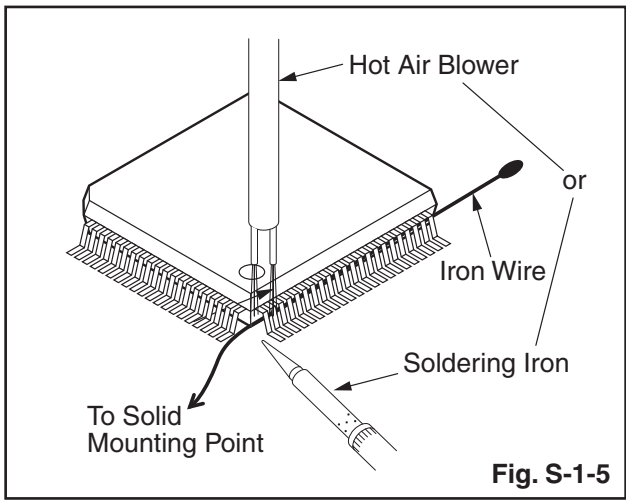


Fig. S-1-5

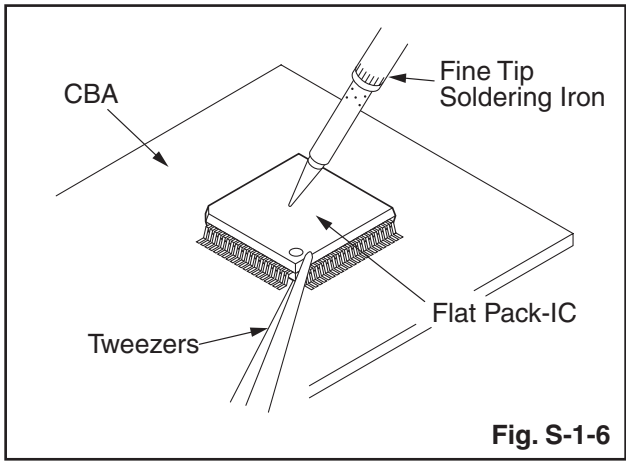


Fig. S-1-6

2. Installation

1. Using desoldering braid, remove the solder from the foil of each pin of the flat pack-IC on the CBA so you can install a replacement flat pack-IC more easily.
2. The "●" mark on the flat pack-IC indicates pin 1. (See Fig. S-1-7.) Be sure this mark matches the 1 on the PCB when positioning for installation. Then presolder the four corners of the flat pack-IC. (See Fig. S-1-8.)
3. Solder all pins of the flat pack-IC. Be sure that none of the pins have solder bridges.

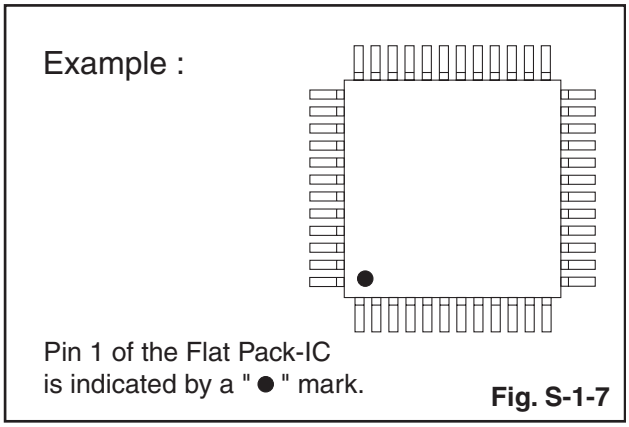


Fig. S-1-7

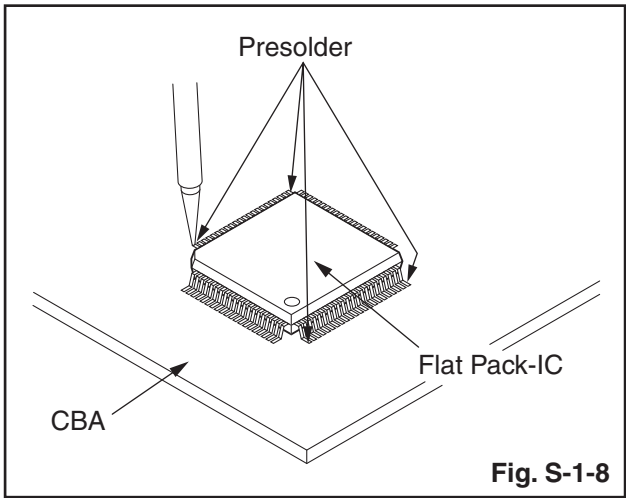


Fig. S-1-8

Instructions for Handling Semi-conductors

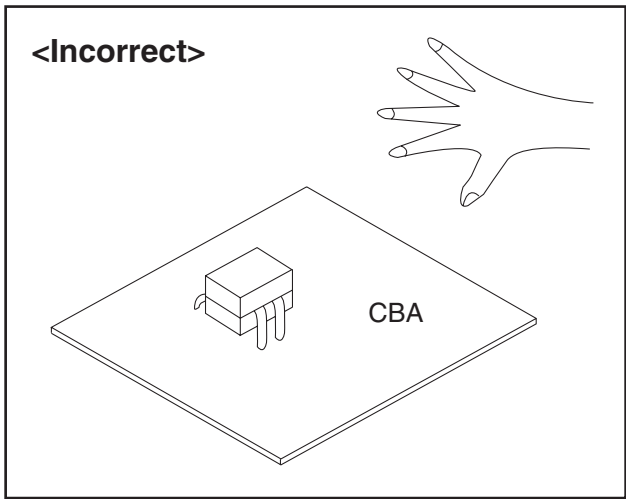
Electrostatic breakdown of the semi-conductors may occur due to a potential difference caused by electrostatic charge during unpacking or repair work.

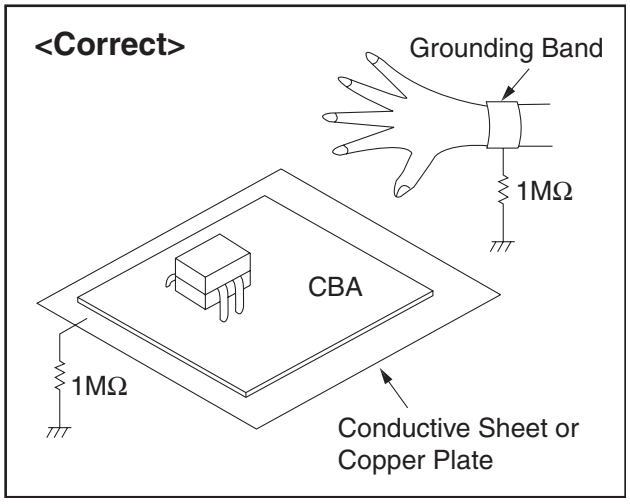
1. Ground for Human Body

Be sure to wear a grounding band (1 MΩ) that is properly grounded to remove any static electricity that may be charged on the body.

2. Ground for Workbench

Be sure to place a conductive sheet or copper plate with proper grounding (1 MΩ) on the workbench or other surface, where the semi-conductors are to be placed. Because the static electricity charge on clothing will not escape through the body grounding band, be careful to avoid contacting semi-conductors with your clothing.





PREPARATION FOR SERVICING

How to Enter the Service Mode

About Optical Sensors

Caution:

An optical sensor system is used for the Tape Start and End Sensors on this equipment. Carefully read and follow the instructions below. Otherwise the unit may operate erratically.

What to do for preparation

Insert a tape into the Deck Mechanism Assembly and press [►] (VCR) button. The tape will be loaded into the Deck Mechanism Assembly. Make sure the power is on, connect JP278(S-INH) to GND. This will stop the function of Tape Start Sensor, Tape End Sensor and Reel Sensors. (If these TPs are connected before plugging in the unit, the function of the sensors will stay valid.) See Fig. 1.

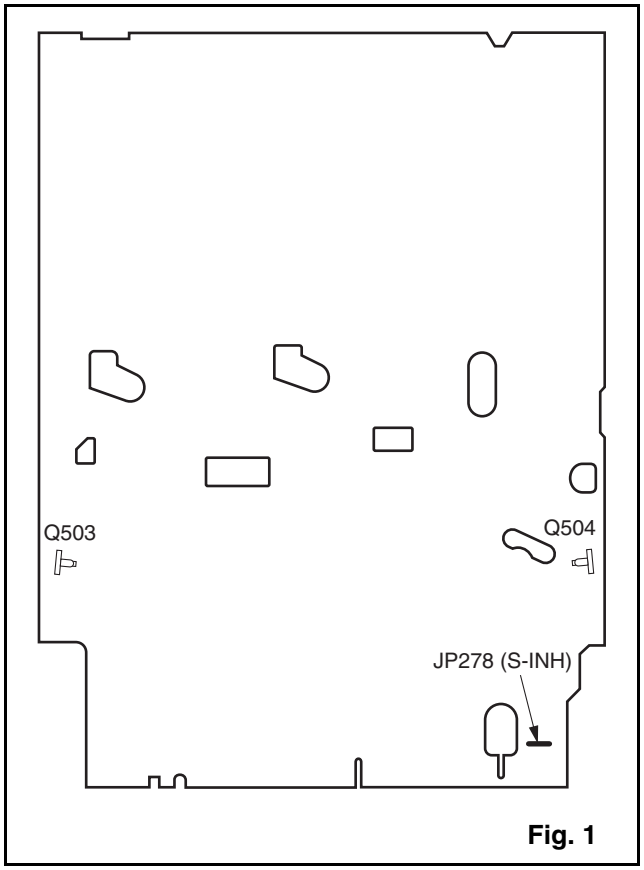


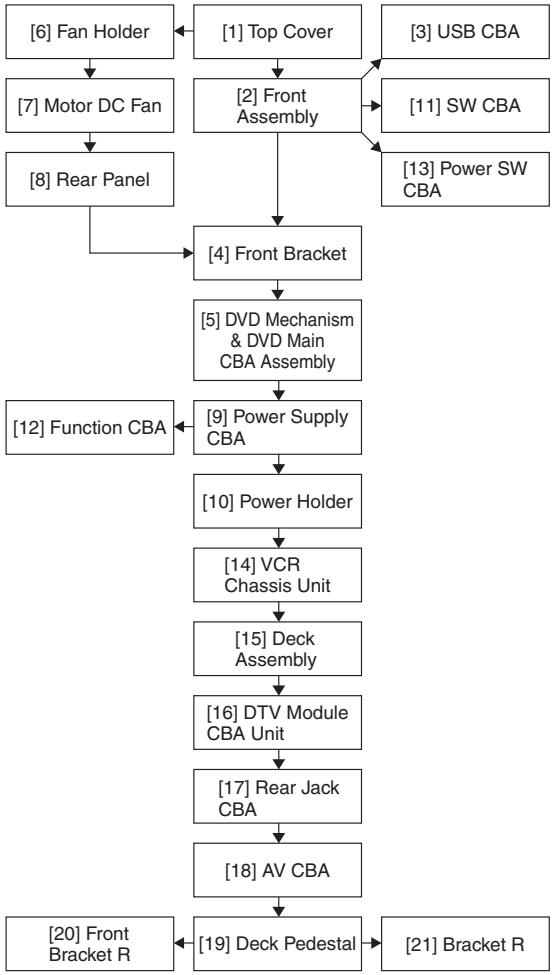
Fig. 1

Note: Because the Tape End Sensors are inactive, do not run a tape all the way to the start or the end of the tape to avoid tape damage.

CABINET DISASSEMBLY INSTRUCTIONS

1. Disassembly Flowchart

This flowchart indicates the disassembly steps to gain access to items to be serviced. When reassembling, follow the steps in reverse order. Bend, route, and dress the cables as they were originally.



2. Disassembly Method

ID/ Loc. No.	Part	Fig. No.	Removal	Note
[1]	Top Cover	D1	9(S-1)	---
[2]	Front Assembly	D2	5(L-1), 3(L-2), (S-2), 2(S-3), CN6001, USB Holder, USB Earth Plate	1
[3]	USB CBA	D2	----------	---
[4]	Front Bracket	D2	3(S-4), (S-5), Front Support	---
[5]	DVD Mechanism & DVD Main CBA Assembly	D3	(S-6), 2(S-7), 2(S-8), 2(S-9), CN101, CN502, CN701, CN901, CN981, Dust Cover, Mecha Earth Plate, Hook	2
[6]	Fan Holder	D4	2(S-10), CN1002	---
[7]	Motor DC Fan	D4	2(S-11)	---
[8]	Rear Panel	D4	2(S-12), 5(S-13), Rear Holder	5
[9]	Power Supply CBA	D5	(S-14), 3(S-15), (S-16), CL1001, CN3605, FFC Guide	---
[10]	Power Holder	D5	----------	---
[11]	SW CBA	D5	(S-17), Desolder	---
[12]	Function CBA	D5	2(S-18), CN1504, Mode Lens Holder	---
[13]	Power SW CBA	D6	(S-19), Desolder	---
[14]	VCR Chassis Unit	D6	5(S-20), 4(S-21)	---
[15]	Deck Assembly	D7	(S-22), (S-23)	3 4
[16]	DTV Module CBA Unit	D7	Desolder	---
[17]	Rear Jack CBA	D7	Desolder	---
[18]	AV CBA	D7	----------	---
[19]	Deck Pedestal	D8	7(S-24)	---
[20]	Front Bracket R	D8	(S-25), 2(S-26), DV Cable, DV Earth Plate	---
[21]	Bracket R	D8	2(S-27)	---
↓ (1)	↓ (2)	↓ (3)	↓ (4)	↓ (5)

Note:

(1) Identification (location) No. of parts in the figures

(2) Name of the part

(3) Figure Number for reference

(4) Identification of parts to be removed, unhooked, unlocked, released, unplugged, unclamped, or desoldered.
P = Spring, L = Locking Tab, S = Screw, CN = Connector
e.g. 2(S-2) = two Screws of (S-2),
2(L-2) = two Locking Tabs of (L-2)

(5) Refer to “Reference Notes.”

Reference Notes

1. Locking Tabs (L-1) and (L-2) are fragile. Be careful not to break them.
   1-1. Remove Screw (S-2).
   1-2. Release four Locking Tabs (L-1).
   1-3. Release three Locking Tabs (L-2).
   1-4. Disconnect Connector (CN6001), and remove the Front Assembly.
2. **The DVD Mechanism & DVD Main CBA Assembly is adjusted as a unit at factory. Therefore, do not disassemble it. Replace the DVD Mechanism & DVD Main CBA Assembly as a unit.**
3. When reassembling, solder wire jumpers as shown in Fig. D7.
4. Before installing the Deck Assembly, be sure to place the pin of LD-SW on the AV CBA as shown in Fig. D7. Then, install the Deck Assembly while aligning the hole of Cam Gear with the pin of LD-SW, the shaft of Cam Gear with the hole of LD-SW as shown in Fig. D7.
5. **When reassembling, be sure to use the original screws or specified screws listed in the parts list.**

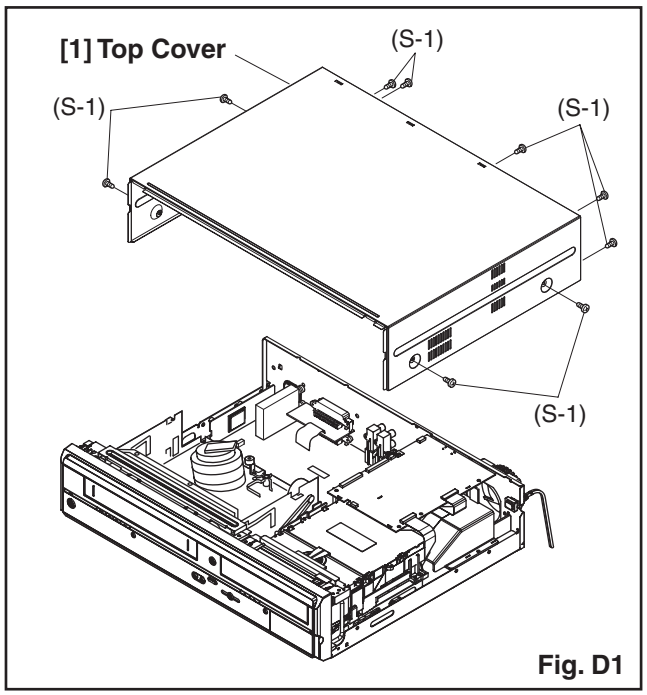


Fig. D1

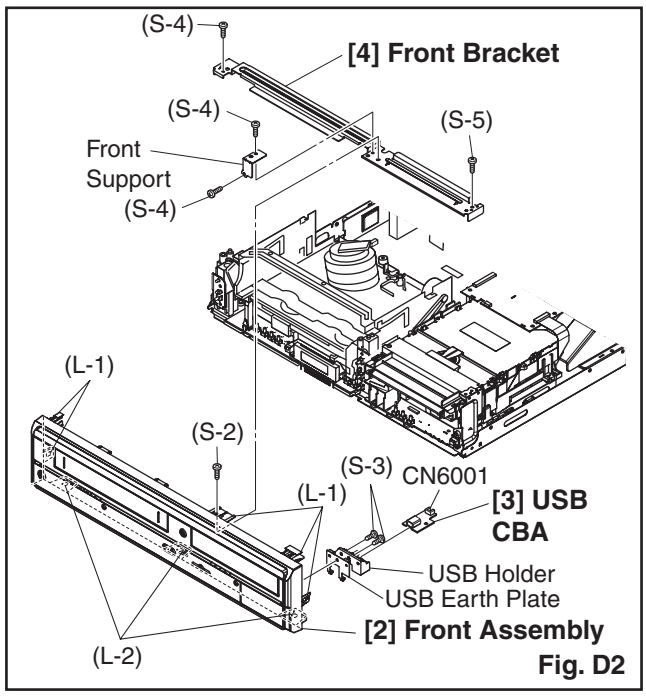
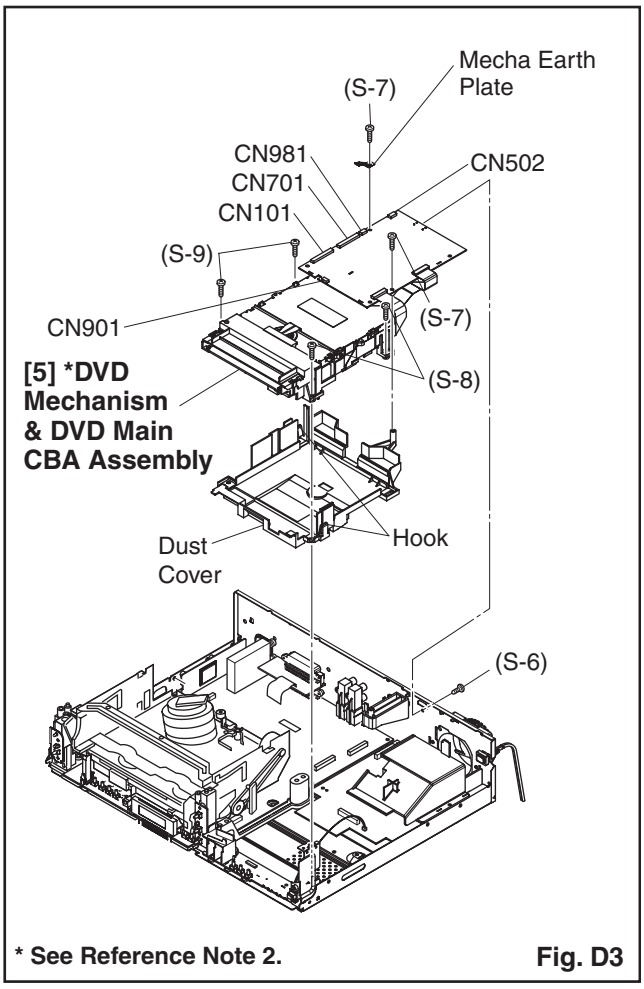


Fig. D2



* See Reference Note 2.

Fig. D3

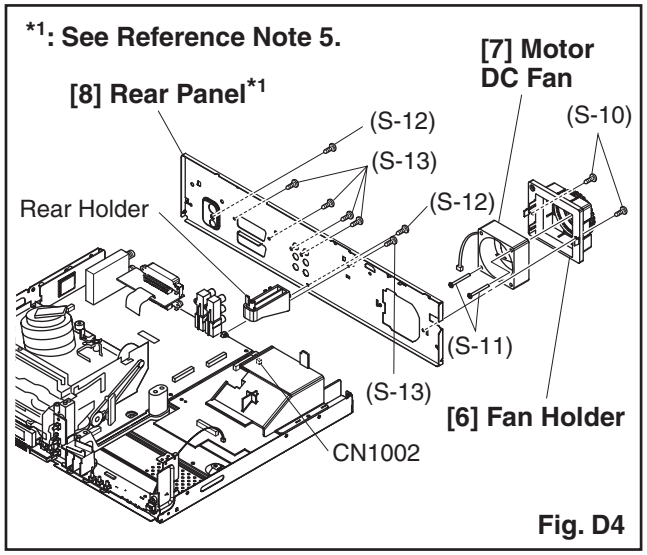


Fig. D4

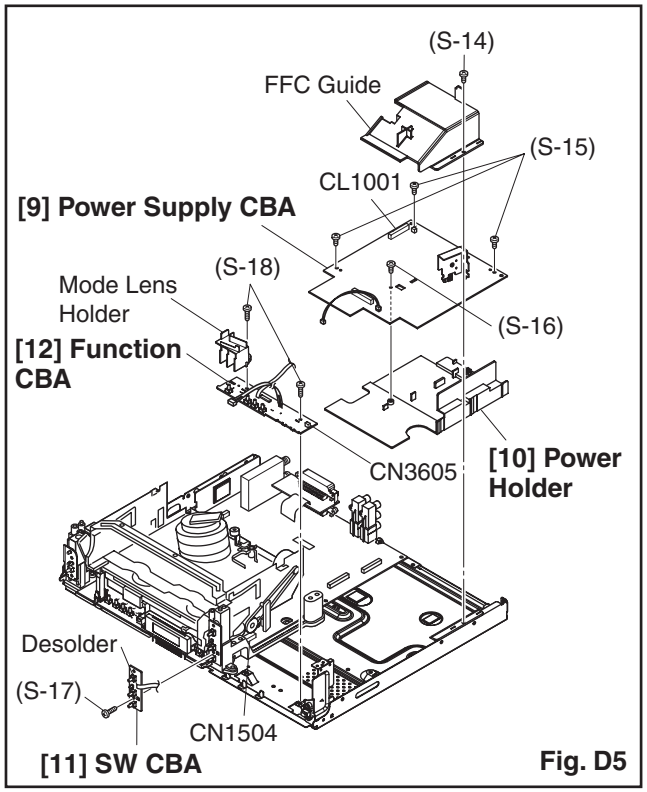


Fig. D5

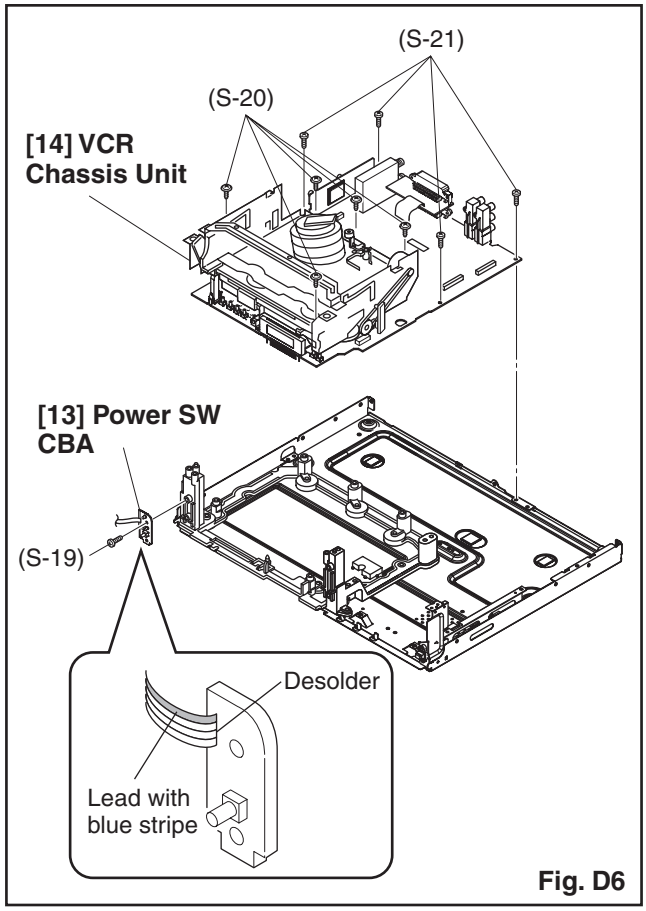
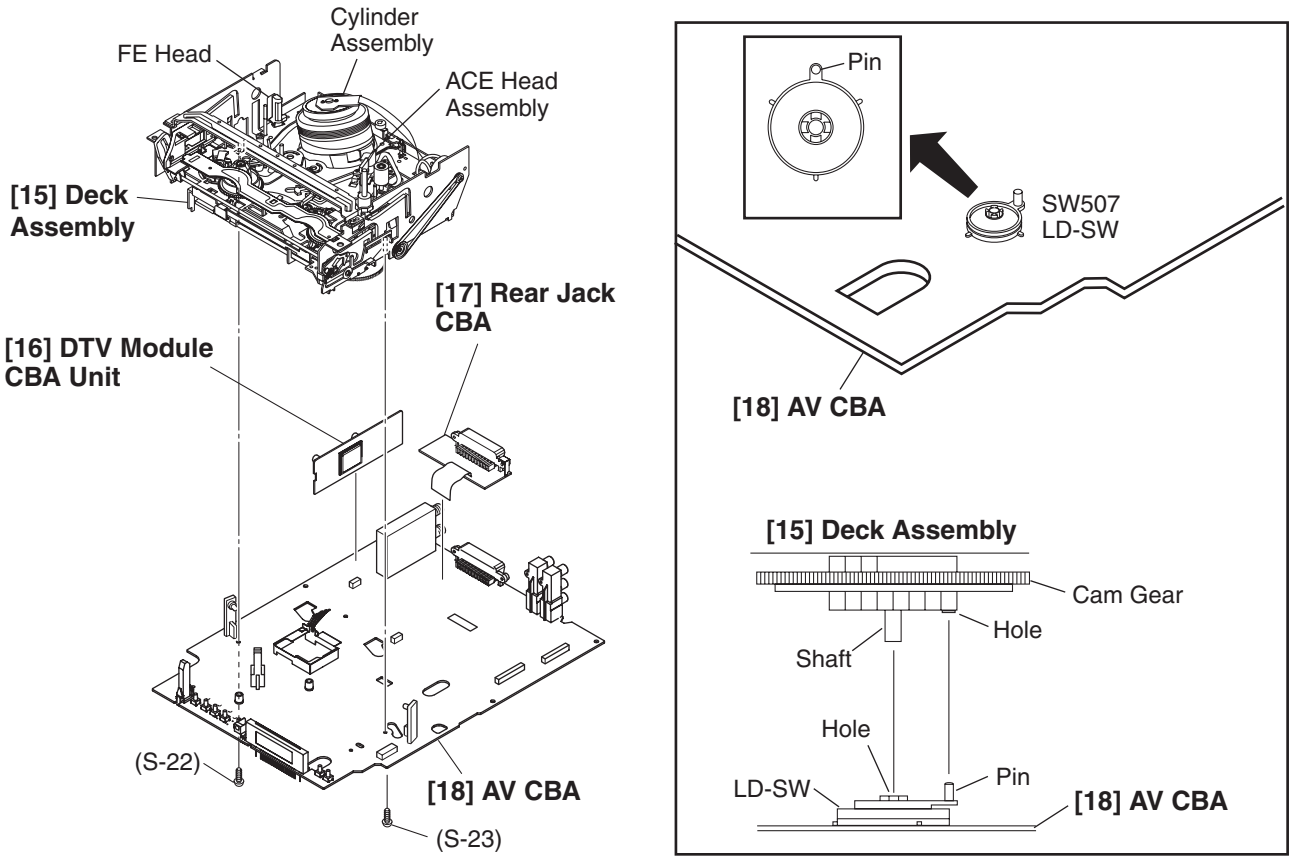
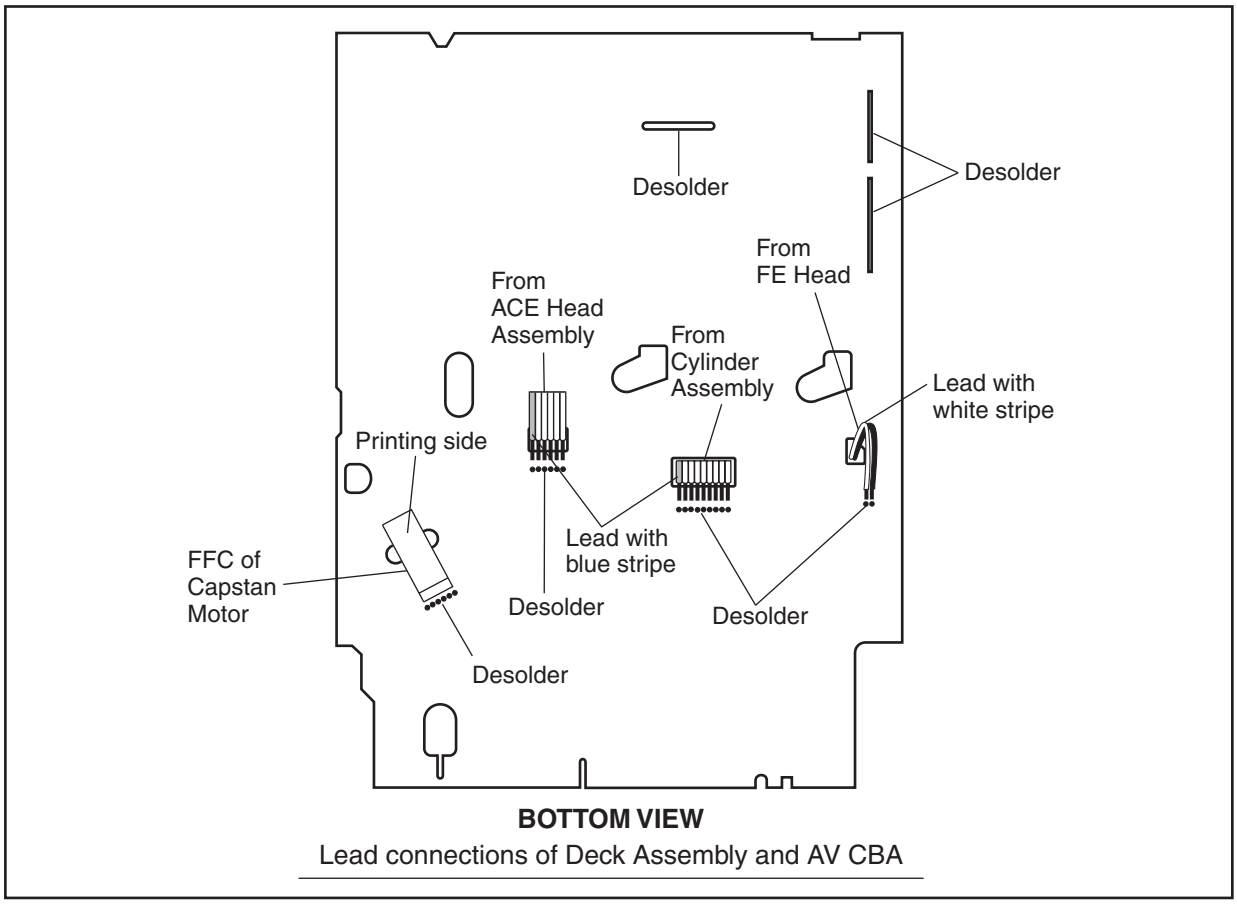


Fig. D6





BOTTOM VIEW

Lead connections of Deck Assembly and AV CBA

Fig. D7

Note: When removing FFC of Capstan Motor from AV CBA, be sure to replace it with a new FFC. (Don't solder FFC which was once removed again.)

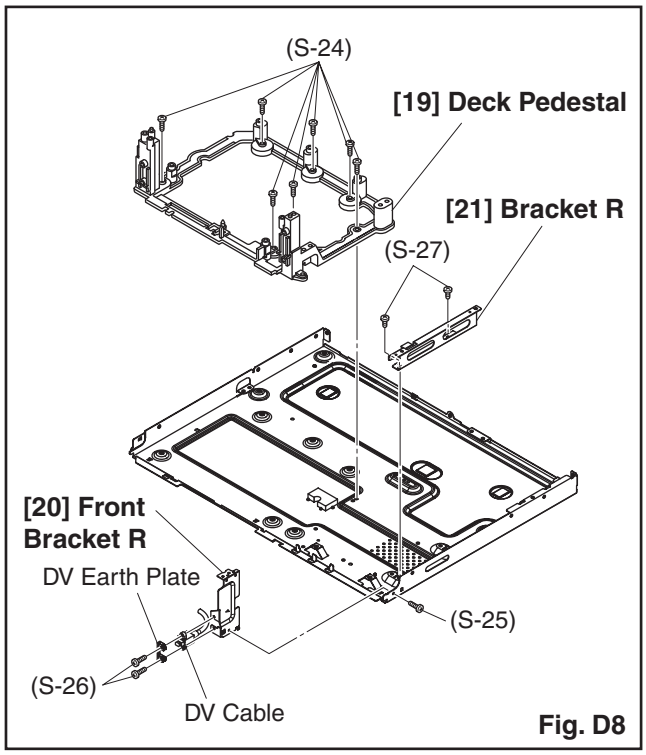
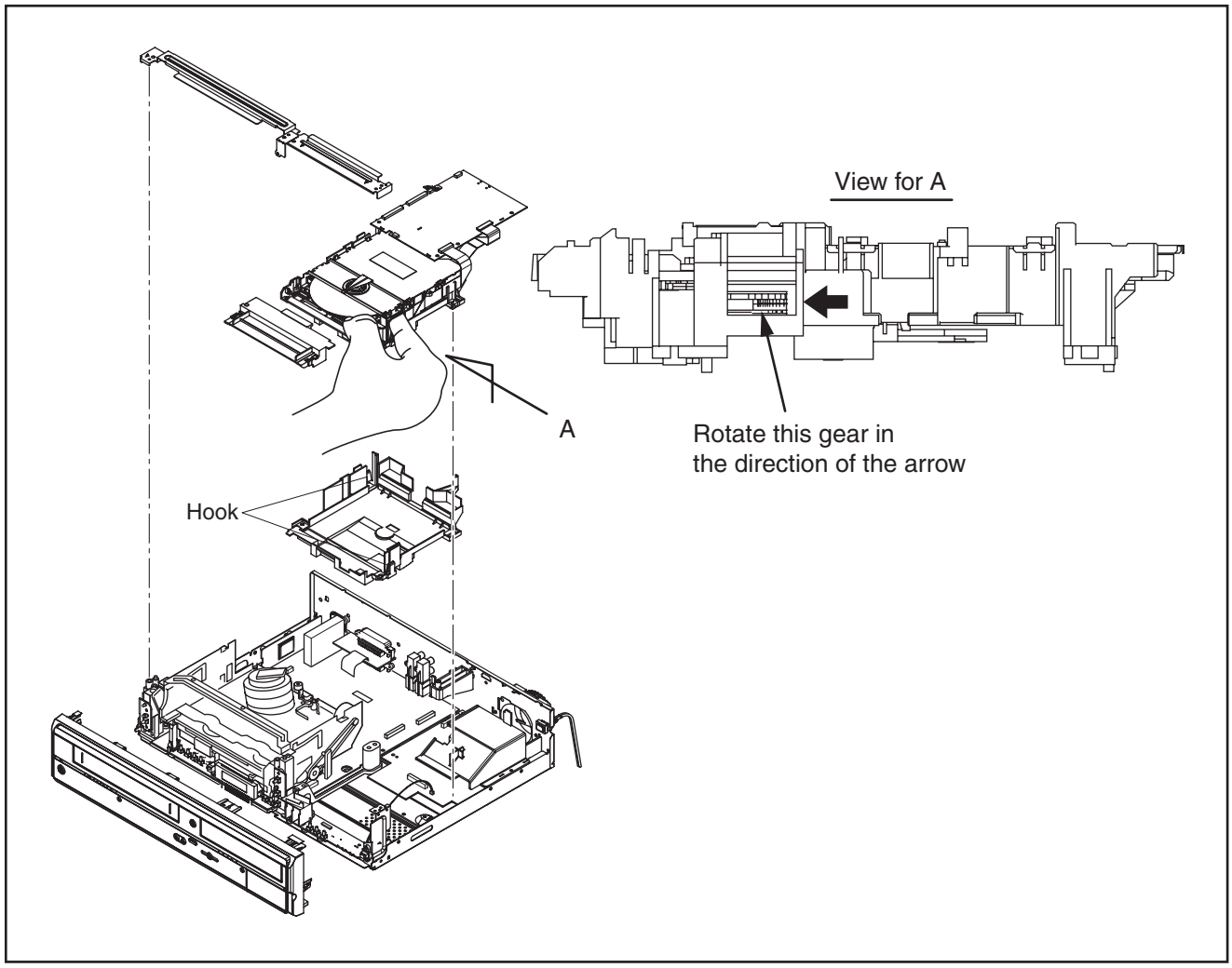

(S-24)
[19] Deck Pedestal
[21] Bracket R
(S-27)
[20] Front
Bracket R
DV Earth Plate
(S-25)
(S-26)
DV Cable

Fig. D8

3. How to Eject Manually

Note: When rotating the gear, be careful not to damage the gear.

1. Remove the Top Cover, Front Assembly, Front Bracket, DVD Mechanism & DVD Main CBA Assembly.
2. Remove the Dust Cover.
3. Rotate the gear in the direction of the arrow manually as shown below the tray descends.
4. Pull the tray out manually and remove a disc.



ELECTRICAL ADJUSTMENT INSTRUCTIONS

Note:

1. Electrical adjustments are required after replacing circuit components and certain mechanical parts. It is important to do these adjustments only after all repairs and replacements have been completed. Also, do not attempt these adjustments unless the proper equipment is available.
2. To perform these alignment / confirmation procedures, make sure that the tracking control is set in the center position: Press either [PROG. ▲] or [PROG. ▼] button on the front panel first, then the [►] (VCR) button on the front panel.

Test Equipment Required

1. Oscilloscope: Dual-trace with 10:1 probe,
   V-Range: 0.001~50V/Div.,
   F-Range: DC~AC-20MHz
2. Alignment Tape (FL6A)

Head Switching Position Adjustment

Purpose:

To determine the Head Switching position during playback.

Symptom of Misadjustment:

May cause Head Switching noise or vertical jitter in the picture.

Test point	Adj.Point	Mode	Input
J171(V-OUT) TP504(RF-SW) GND	VR501 (Switching Point) (AV CBA)	PLAY► (SP)	-----
Tape	**Measurement Equipment**	**Spec.**	
FL6A	Oscilloscope	6.5H±1H (416μs±64μs)	

Connections of Measurement Equipment

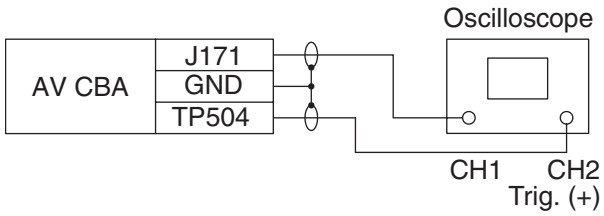
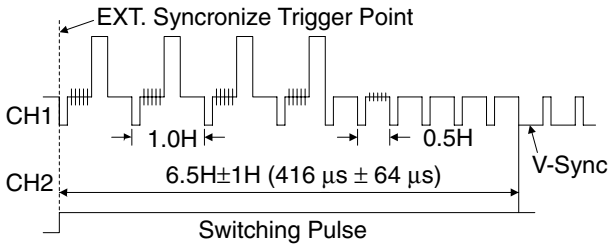


Figure 1



Reference Notes:

Playback the Alignment tape and adjust VR501 so that the V-sync front edge of the CH1 video output waveform is at the 6.5H±1H (416μs±64μs) delayed position from the rising edge of the CH2 head switching pulse waveform.

HOW TO INITIALIZE THE DVD RECORDER & VCR

To put the program back at the factory-default, initialize the DVD recorder & VCR as the following procedure.

< DVD Section >

1. Turn on the DVD recorder & VCR.
2. Confirm that no disc is loaded or that the disc tray is open. To put the DVD recorder & VCR into the Version display mode, press [DVD], [CM SKIP], [1], [2], and [3] buttons on the remote control unit in this order.
   Fig. a appears on the screen.

*1: "*******" differs depending on the models.
*2: Firmware Version differs depending on the models, and this indication is one example.

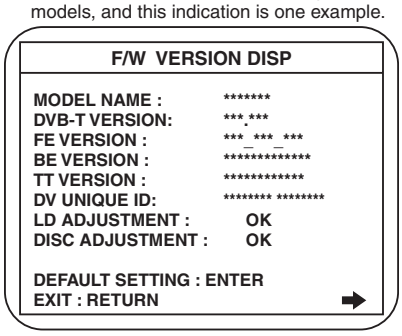


Fig. a Version Display Mode Screen

3. Press [ENTER/OK] button, then the DVD recorder & VCR starts initializing. When the initializing is completed, the DVD recorder & VCR exits the Version display mode and turns off the power automatically.
   * To move into the Normal mode from the Version display mode, press [RETURN/BACK] button on the remote control unit instead of [ENTER/OK] button.
   * When [STANDBY-ON] button is pressed before [ENTER/OK] button is pressed, the DVD recorder & VCR exits the Version display mode, then the power turns off.

Note: By initializing, “Current Clock”, “Setup Changing Item”, “Channel Setup” and “Timer Program” are initialized.

FIRMWARE RENEWAL MODE

1. Turn the power on and remove the disc on the tray.
2. To put the DVD recorder & VCR into version up mode, press [DVD], [CM SKIP], [6], [5], and [4] buttons on the remote control unit in this order.
   Then the tray will open automatically.
   Fig. a appears on the screen and Fig. b appears on the VFD.

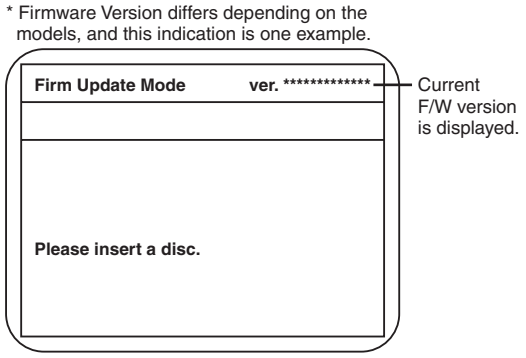

* Firmware Version differs depending on the models, and this indication is one example.
Firm Update Mode
ver. **********
Current F/W version is displayed.
Please insert a disc.

Fig. a Version Up Mode Screen

Fig. b VFD in Version Up Mode

3. Load the disc for version up.
   Fig. c appears on the screen. The file on the top is highlighted as the default.
   When there is only one file to exist, Step 4 will start automatically.

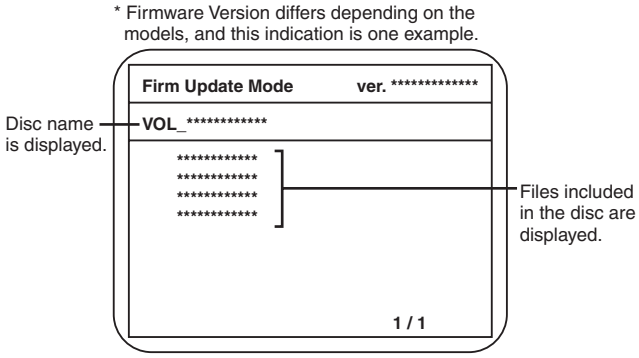


Fig. c Update Disc Screen

4. Select the firmware version pressing arrow buttons, then press [ENTER/OK].
   Fig. d appears on the screen and Fig. e appears on the VFD. The DVD recorder & VCR starts updating.

   About VFD indication of Fig. e:

   1) When Fig. d is displayed on the screen, “F-UP” is displayed on the VFD.
   2) When “Firmware Updating... XX% Complete.” is displayed on the screen, BE version number is displayed on the VFD such as 194000.

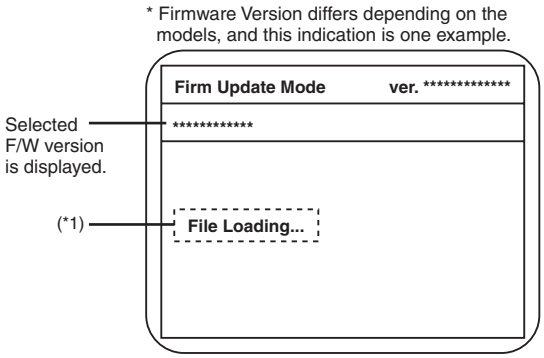

* Firmware Version differs depending on the models, and this indication is one example.
Firm Update Mode
ver. **********
Selected F/W version is displayed.
****
(*1)
File Loading...

Fig. d Programming Mode Screen

Fig. e VFD in Version Up Mode (Example)

The appearance shown in (*1) of Fig. d is described as follows.

No.	Appearance	State
1	File Loading...	Sending files into the memory
2	Firmware Updating... XX% Complete.	Writing new version data
---	Firmware Update Failure	Failed in updating

5. After updating is finished, the tray opens automatically.
   At this time, no button is available.
6. Pull out the AC code once, then insert it again.

How to Verify the Firmware Version

1. Turn on the DVD recorder & VCR.
2. Confirm that no disc is loaded or that the disc tray is open. To put the DVD recorder & VCR into the Version display mode, press [DVD], [CM SKIP], [1], [2], and [3] buttons on the remote control unit in this order.
   Fig. f appears on the screen.

*1: "*******" differs depending on the models.
*2: Firmware Version differs depending on the models, and this indication is one example.

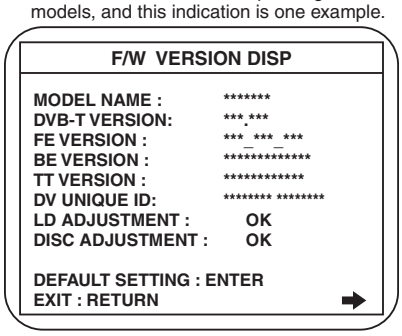


Fig. f Firmware version display

Display	Contents
MODEL NAME	Model Name
DVB-T VERSION	DVB-T Module version
FE VERSION	Firmware F/E version
BE VERSION	Firmware B/E version
TT VERSION	Firmware T/T version
DV UNIQUE ID	DV Unique ID
LD ADJUSTMENT	LD adjustment progress (done: OK/ not done: --)
DISC ADJUSTMENT	Factory adjustment progress (done: OK/not done: --)

3. Press [RETURN/BACK] or [STANDBY-ON] button to turn off.

Note: Be sure to verify the firmware version.

FUNCTION INDICATOR SYMBOLS

< VCR Section >

Note:

If a mechanical malfunction occurs, the power is turned off. Turn the power back on by pressing [STANDBY-ON] button and an error message will be displayed on the TV screen for 5 seconds.

MODE	INDICATOR ACTIVE
When reel or capstan mechanism is not functioning correctly	"⏏ R" is displayed on a TV screen. (Refer to Fig. 1.)
When tape loading mechanism is not functioning correctly	"⏏ T" is displayed on a TV screen. (Refer to Fig. 2.)
When cassette loading mechanism is not functioning correctly	"⏏ C" is displayed on a TV screen. (Refer to Fig. 3.)
When the drum is not working properly	"⏏ D" is displayed on a TV screen. (Refer to Fig. 4.)
P-ON Power safety detection	"⏏ P" is displayed on a TV screen. (Refer to Fig. 5.)

TV screen

When reel or capstan mechanism is not functioning correctly

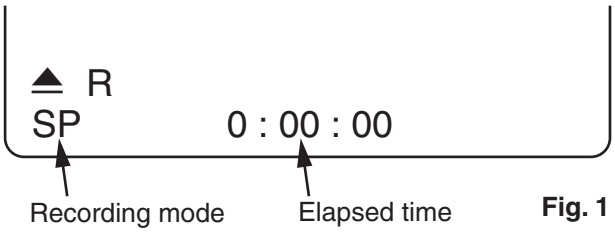


Fig. 1

When tape loading mechanism is not functioning correctly

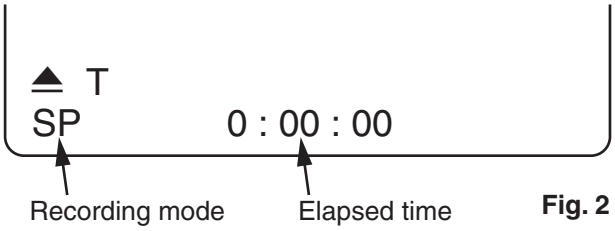


Fig. 2

When cassette loading mechanism is not functioning correctly

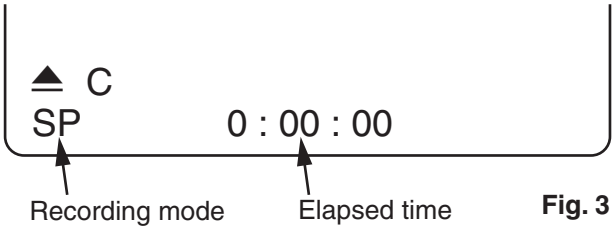


Fig. 3

When the drum is not working properly

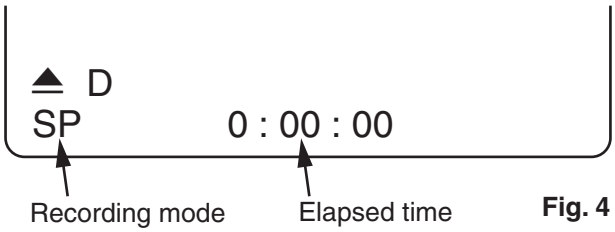


Fig. 4

P-ON Power safety detection

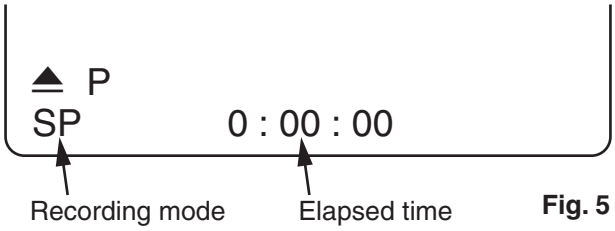
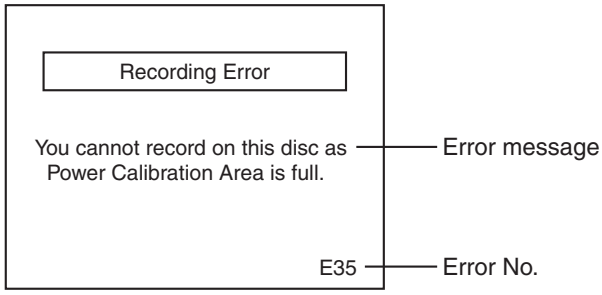


Fig. 5

< DVD Section >

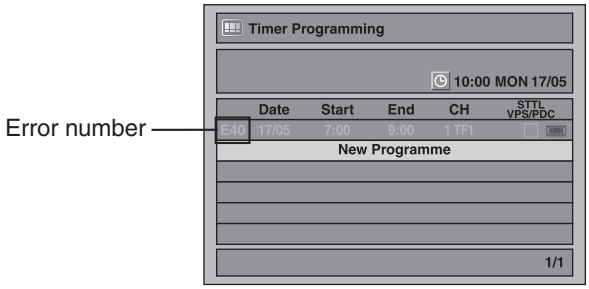
Note: If an error occurs, a message with the error number appears on the screen.



Message	Solution	Error No.	Error Description
Can not record on this disc.	Insert the recordable disc, and ensure the disc status satisfies the recording requirements.	1	An error occurs during data reading.
		2	There is no reply for 15 seconds in Test Unit Ready.
		3	Cannot write the data after trying three times.
		4	An error occurs with OPC.
		5	During recovery in a record.
		6	An error occurs even if recovery has been tried three times.
		7	An error occurs in a format.
		8	It cannot start an encode.
		9	NV_PCK/RDI_PCK is not in encoded data.
		10	Encode Pause condition continued for 10 minutes.
		11	Encode Pause condition continued in normal REC condition for 10 minutes.
		12	Difference in the address and can not get Stream ID of RDI/VIDEO.
		13	It is a reply that “ATAPI is not readable.”
		14	Cannot write the data after recovering SMALL VMGI.
		15	Cannot write the data after DVD-R Reverse Track.
		16	An error occurs in Finalize Close.
		17	An error occurs in Rec Stop Close.
		18	An error occurs in PCA Full (DVD_R).
		19	Safety Stop occurs during editing.
		20	High Speed Disc.
		21	The disc is not formatted.
		22	Disc Error has occurred.
		23	The -R Disc of VR Mode.
		24	The disc except DVD-R/-RW.
This program is not allowed to be recorded.	You cannot record copy-prohibited programs.	25	During the Macrovision picture input.
		26	During the CGMS picture input.
This program is not recordable in Video mode.	You cannot record copy-prohibited programs.	27	During the CGMS picture input. (Video Format Disc)
This program is not allowed to be recorded on this disc.	You cannot record copy-prohibited programs.	28	During the CGMS picture input. (VR Format Disc that is not compatible with CPRM.)
This disc is protected and not recordable.	Release the disc protection setting in the Disc Setting menu.	29	Disc Protected Disc.

Message	Solution	Error No.	Error Description
Disc is full. (No area for new recording)	Insert the recordable disc with enough recording space.	30	No available recording space.
You cannot record more than 99 titles on one disc. (The maximum is 99.)	Delete unnecessary titles.	31	The 99 title limit has been reached. (Video Format Disc)
		32	The 99 title limit has been reached. (VR Format Disc)
You cannot record more than 999 chapters on one disc. (The maximum is 999.)	Delete unnecessary chapters.	33	The 999 chapter limit has been reached. (VR Format Disc)
You cannot record on this disc as Control Information is full.	Insert a new disc.	34	No available recording space for Control Information.
You cannot record on the disc as Power Calibration Area is full.	Insert a new disc.	35	PCA is Full. (in REC start)
This disc is already finalized.	Release the finalizing for this disc.	36	It is finalized. (Video Format Disc)
Can not record on this disc.	Repeat the same operation.	37	Access to Memory Area range outside.
		38	Sector Address is wrong.
		39	BUP writing error of chapter editing.
This program is not recordable in +VR mode.	You cannot record copy-prohibited programs.	45	During the CGMS picture input (+VR Format Disc).
This Program is not allowed to be recorded.	Receive PAL/SECAM signal.	51	When you receive signal other than PAL/SECAM.

If an error occurs during the timer recording, one of the following error numbers (40 to 42) or the above error messages (error number: 1 to 39, 45 and 51) is displayed on the recording menu after timer recording.
(Once the screen of the program line is exited, the program line for the error will be cleared.)
(No Error Message is displayed for the error No. 40 ~ 42.)



A program with the error number is grayed out on the timer programming list.

Message	Solution	Error No.	Error Description
Error message is not displayed.	- Set the timer programming correctly. - Set the timer programming before the start time. - Insert a recordable videotape with a record tab.	40	- Some portion has not been recorded because of program overlapping. - Recording did not start at the start time. - No Videotape is inserted. Videotape ran out during recording.
	Turn the power on and set the clock correctly then set timer programming again.	41	Power failed
	Insert the recordable disc.	42	No disc when recording

TROUBLESHOOTING

1 Power Supply Section

FLOW CHART NO.1

The power cannot be turned on.

↓

Is the fuse normal? — No → See FLOW CHART No.2 <The fuse blows out.>

↓ Yes

Is normal state restored when once unplugged power cord is plugged again after several seconds. — No → Check for leak or short-circuiting of primary circuit component and service it if defective.
SYS+5V (IC1051, IC1052, IC1151, D1051, D1052, D1053, D1054, D1057, D1058, D1152, R1054, T1051, RL1001)
AL+5V (Q1001, Q1003, T1001, D1001, D1002, D1003, D1004, D1011, D1102, D1140, R1003)

↓ Yes

Is the SYS+5V line voltage normal? — No → (same as above)

↓ Yes

Is the AL+5V line voltage normal? — No → (same as above)

↓ Yes

Check each rectifying circuit of secondary circuit and service it if defective.

FLOW CHART NO.2

The fuse blows out.

↓

Check the presence that the primary component is leaking or shorted and service it if defective.

Check the presence that the rectifying diode or circuit is shorted in each rectifying circuit of secondary side and service it if defective.

↓

After servicing, replace the fuse.

FLOW CHART NO.3

When the output voltage fluctuates.

↓

Does the secondary side photo coupler circuit operate normally? — No → Check the circuit and service it if defective. (IC1001, IC1101, D1102)

↓ Yes

Check the circuit and service it if defective. (IC1001, D1025, D1022, D1023)

FLOW CHART NO.4

When buzz sound can be heard in the vicinity of power circuit.

↓

Check if there is short circuit on the rectifying diode and the circuit in each rectifying circuit of secondary side, and service it if defective. (D013, D014, D016, D018, D019, D1031, D1032, D1033, D1034, D1101, D1103, IC1103, IC1104, Q1100, Q1106, Q1108, Q1112, Q1119, Q1508, Q1511, Q1513, Q1516, Q1517, Q1520, Q1521, Q1527)

FLOW CHART NO.5

-FL is not outputted.

↓

Is the supply voltage of -36V fed to the anode of D018? — No → Check D018, D020 and their periphery, and service it if defective.

↓ Yes

Check for short-circuiting or leak on the load circuit, and service it if defective.

FLOW CHART NO.6

AL+44V is not outputted.

↓

Is the supply voltage 44V fed to the cathode of D013? → No → Check D013, D1140 and their periphery, and service it if defective.

↓ Yes

Check for short-circuiting or leak on the load circuit, and service it if defective.

FLOW CHART NO.7

TU+30V is not outputted.

↓

Is 44V voltage supplied to collector of Q1808? → No → Refer to "FLOW CHART NO.6"<AL+44V is not outputted>.

↓ Yes

Is the "H" pulse (approximately 32V) inputted to the base of Q1808? → No → Check D1804 and their periphery, and service it if defective.

↓ Yes

Check Q1511, Q1512 and their periphery, and service it if defective.

FLOW CHART NO.8

AL+12V(ECO+12V) is not outputted.

↓

Is the supply voltage 12V fed to the cathode of D014? → No → Check D014 and their periphery, and service it if defective.

↓ Yes

Check for short-circuiting or leak on the load circuit, and service it if defective.

FLOW CHART NO.9

P-ON+9V(VCR) is not outputted.

↓

Is 12V voltage supplied to collector of Q1513? → No → Refer to "FLOW CHART NO.8"<AL+12V(ECO+12V) is not outputted>.

↓ Yes

Is the "H" pulse (approximately 10V) inputted to the base of Q1513? → No → Refer to "FLOW CHART NO.7"<TU+30V is not outputted>.

↓ Yes

Check Q1513 and their periphery, and service it if defective.

FLOW CHART NO.10

P-ON+5V(DECK) is not outputted.

↓

Is 12V voltage supplied to collector of Q1516? → No → Refer to "FLOW CHART NO.8"<AL+12V(ECO+12V) is not outputted>.

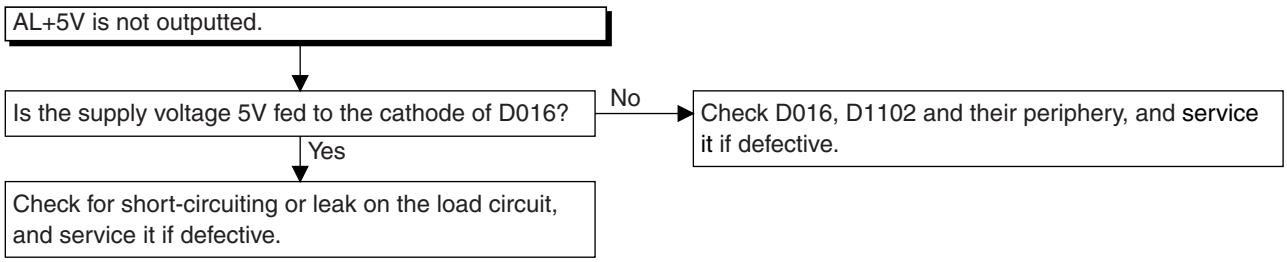
↓ Yes

Is the "H" pulse (approximately 6V) inputted to the base of Q1516? → No → Refer to "FLOW CHART NO.9"<P-ON+9V(VCR) is not outputted>.

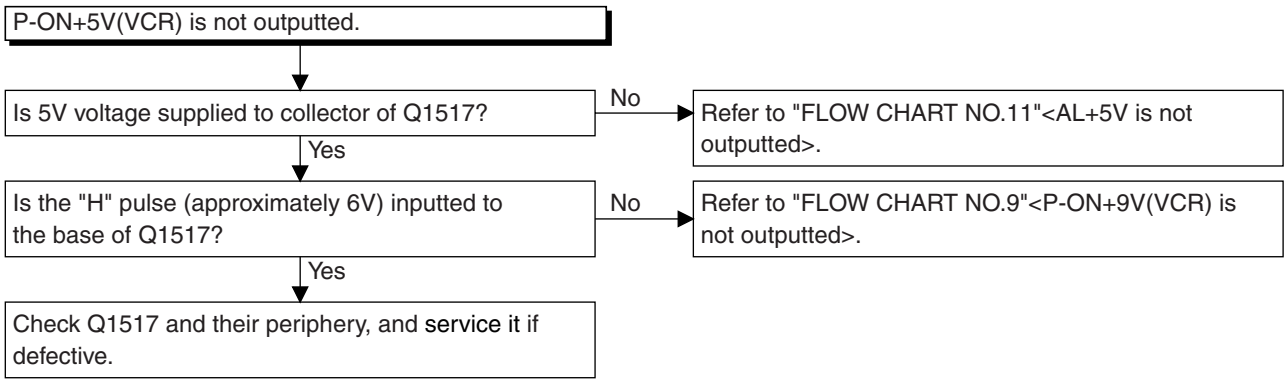
↓ Yes

Check Q1516 and their periphery, and service it if defective.

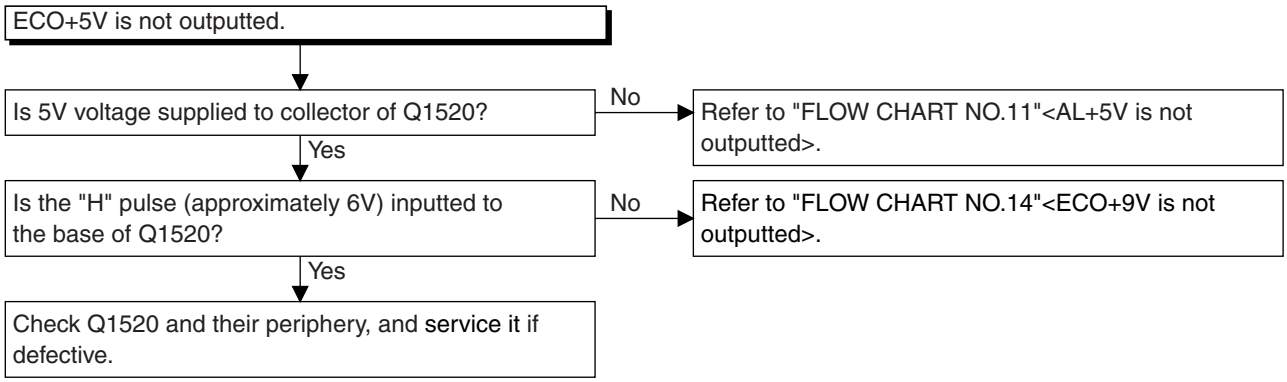
FLOW CHART NO.11



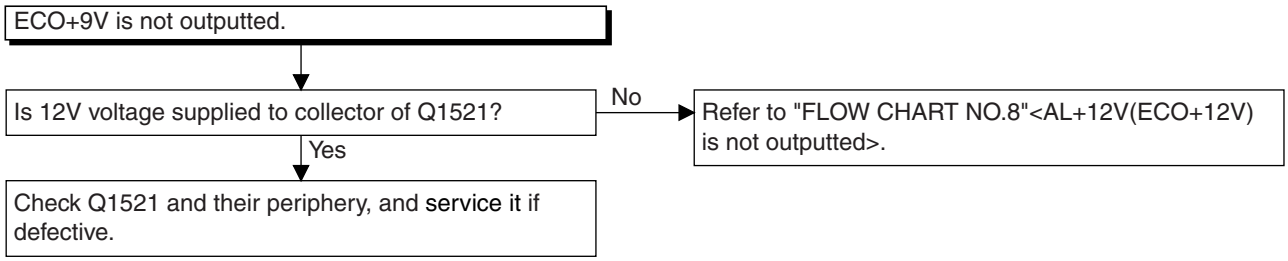
FLOW CHART NO.12



FLOW CHART NO.13



FLOW CHART NO.14



FLOW CHART NO.15

DVD-P-ON+5V is not outputted.

Is the supply voltage 5V fed to the cathode of D016?

No → Check D016, D1102 and their periphery, and service it if defective.

Yes

Is the "H" pulse (approximately 6V) inputted to the base of Q1106?

No → Refer to "FLOW CHART NO.16"<P-ON+10V is not outputted>.

Yes

Check Q1106 and their periphery, and service it if defective.

FLOW CHART NO.16

P-ON+10V is not outputted.

Is the supply voltage 14V fed to the cathode of D1031?

No → Check D017, D1031 and their periphery, and service it if defective.

Yes

Check Q1100,Q1101,Q1104 and their periphery, and service it if defective.

FLOW CHART NO.17

P-ON+3.3V is not outputted.

Is the supply voltage 5V fed to the cathode of D1101?

No → Check D1101 and their periphery, and service it if defective.

Yes

Is the "H" pulse (approximately 5V) inputted to the base of Q1107?

No → Check the 1V2CONT signal line, and service it if defective.

Yes

Is 3.3V voltage outputted to pin 2 of IC1104?

No → Check IC1104 and their periphery, and service it if defective.

Yes

Check for short-circuiting or leak on the load circuit, and service it if defective.

FLOW CHART NO.18

SYS+5V is not outputted.

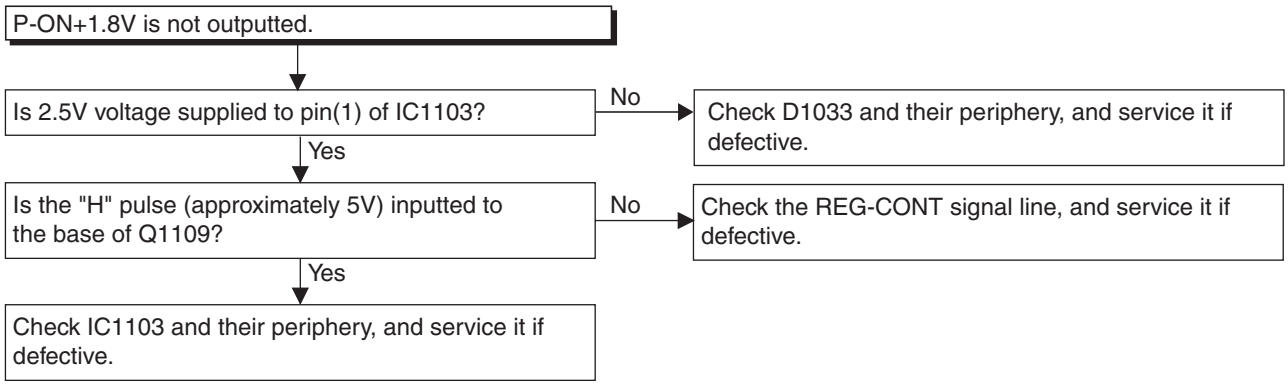
Is 5V voltage outputted to pin 26 of CL1001?

No → Check IC1051, IC1052, IC1151, D1152, T1051 and their periohery, and service it if defective.

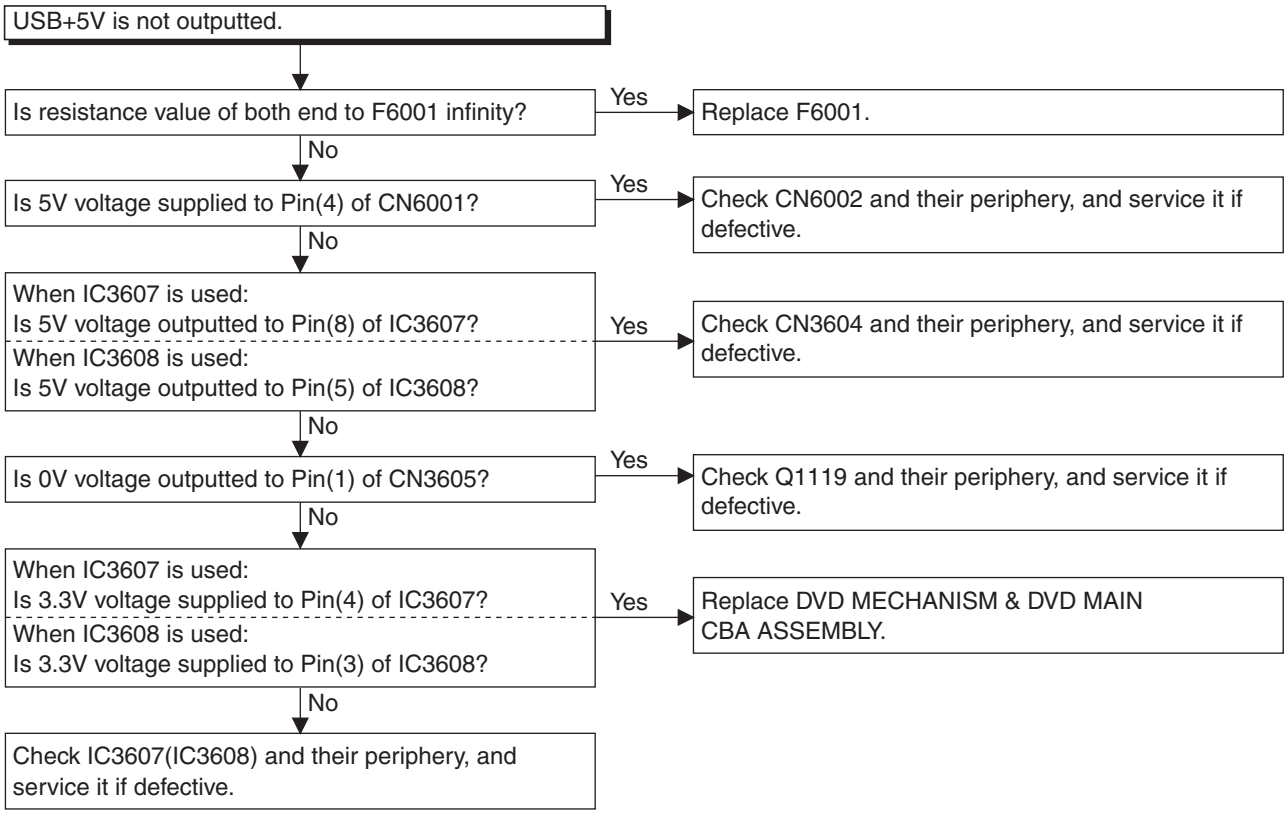
Yes

Check for short-circuiting or leak on the load circuit, and service it if defective.

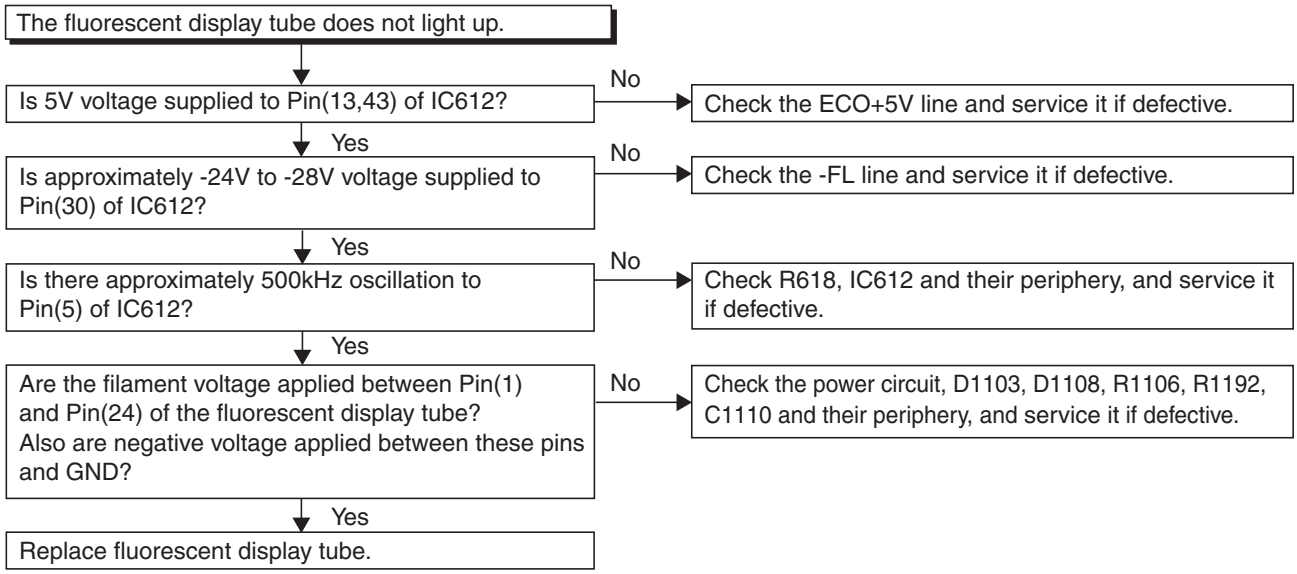
FLOW CHART NO.19


P-ON+1.8V is not outputted.
Is 2.5V voltage supplied to pin(1) of IC1103?
No
Check D1033 and their periphery, and service it if defective.
Yes
Is the "H" pulse (approximately 5V) inputted to the base of Q1109?
No
Check the REG-CONT signal line, and service it if defective.
Yes
Check IC1103 and their periphery, and service it if defective.

FLOW CHART NO.20


USB+5V is not outputted.
Is resistance value of both end to F6001 infinity?
Yes
Replace F6001.
No
Is 5V voltage supplied to Pin(4) of CN6001?
Yes
Check CN6002 and their periphery, and service it if defective.
No
When IC3607 is used:
Is 5V voltage outputted to Pin(8) of IC3607?
When IC3608 is used:
Is 5V voltage outputted to Pin(5) of IC3608?
Yes
Check CN3604 and their periphery, and service it if defective.
No
Is 0V voltage outputted to Pin(1) of CN3605?
Yes
Check Q1119 and their periphery, and service it if defective.
No
When IC3607 is used:
Is 3.3V voltage supplied to Pin(4) of IC3607?
When IC3608 is used:
Is 3.3V voltage supplied to Pin(3) of IC3608?
Yes
Replace DVD MECHANISM & DVD MAIN CBA ASSEMBLY.
No
Check IC3607(IC3608) and their periphery, and service it if defective.

FLOW CHART NO.21


The fluorescent display tube does not light up.
Is 5V voltage supplied to Pin(13,43) of IC612?
No
Check the ECO+5V line and service it if defective.
Yes
Is approximately -24V to -28V voltage supplied to Pin(30) of IC612?
No
Check the -FL line and service it if defective.
Yes
Is there approximately 500kHz oscillation to Pin(5) of IC612?
No
Check R618, IC612 and their periphery, and service it if defective.
Yes
Are the filament voltage applied between Pin(1) and Pin(24) of the fluorescent display tube?
Also are negative voltage applied between these pins and GND?
No
Check the power circuit, D1103, D1108, R1106, R1192, C1110 and their periphery, and service it if defective.
Yes
Replace fluorescent display tube.

2 DVD Section

FLOW CHART NO.1

The key operation is not functioning.

↓

Are the contact point and the installation state of the key switches normal?

No → Re-install the key switches correctly or replace the defective key switches.

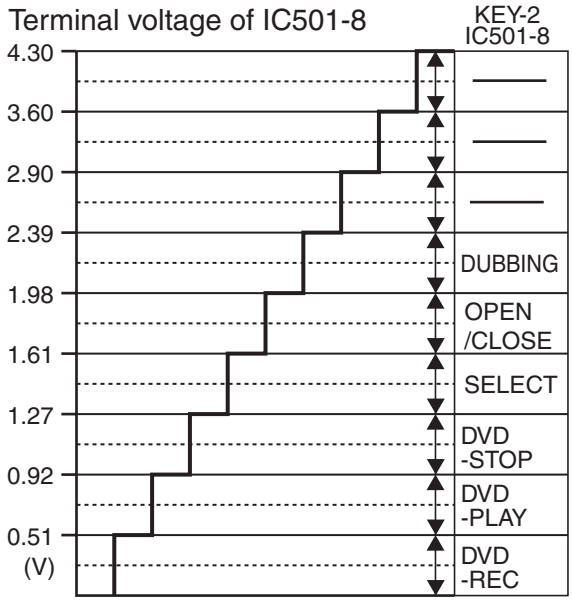
↓ Yes

Is the control voltage normally inputted into Pin(8) of IC501?

No → Check the key switches and their periphery, and service it if defective.

↓ Yes

Replace IC501 or DVD MECHANISM & DVD MAIN CBA ASSEMBLY.



FLOW CHART NO.2

No DVD operation is possible from the remote control. (Operation is possible from the unit.)

↓

Is 5V voltage supplied to Pin(3) terminal of the RS1501 (remote control receiver)?

No → Check SYS+5V line, and service it if defective.

↓ Yes

Is the "L" pulse sent out from Pin(1) terminal of the RS1501 (remote control receiver) when the remote control is activated?

No → Replace RS1501 (remote control receiver) or remote control unit.

↓ Yes

Is the "L" pulse signal supplied to Pin(14) of IC501?

No → Check the line between the RS1501 (remote control receiver) and Pin(14) of IC501, and service it if defective.

↓ Yes

Replace IC501 or DVD MECHANISM & DVD MAIN CBA ASSEMBLY.

FLOW CHART NO.3

There is [No Disc] indication.

Both picture and sound do not operate normally.

↓

Replace DVD MECHANISM & DVD MAIN CBA ASSEMBLY.

FLOW CHART NO.4

VIDEO E-E does not appear normally.

↓

Are the video signals inputted to each pin of IC1509?

IC1509	20PIN	VIDEO-IN 1 (AV1)
IC1509	3PIN	DTV-Y
IC1509	5PIN	DTV-C
IC1509	12PIN	VIDEO-IN 2 (AV2)
IC1509	18PIN	TUNER-VIDEO

No → Check the line between video input terminal and each pin of IC1509, and service it if defective.

IC1509	20PIN → JK1504	VIDEO-IN 1 (AV1)
IC1509	3PIN → CN1800 26PIN	DTV-Y
IC1509	5PIN → CN1800 28PIN	DTV-C
IC1509	12PIN → JK2001	VIDEO-IN 2 (AV2)
IC1509	18PIN → TU1800 17PIN	TUNER-VIDEO

Yes ↓

Are the video signals outputted to each pin of IC1509?

IC1509	61PIN	VIDEO-Y/CVBS-IN
IC1509	59PIN	VIDEO-C-IN

No → Is 5V voltage supplied to Pin(27,29,47,63) of IC1509? Is 9V voltage supplied to Pin(75) of IC1509?

Yes → Replace IC1509.

No → Check the ECO+5V, ECO+9V line and service it if defective.

Yes ↓

Are the video signals outputted to each pin of CN1502?

CN1502	20PIN	VIDEO-Y/CVBS-IN
CN1502	22PIN	VIDEO-C-IN

No → Check the line between each pin of IC1509 and each pin of CN1502 and service it if defective.

IC1509	61PIN → CN1502	20PIN	VIDEO-Y/CVBS-IN
IC1509	59PIN → CN1502	22PIN	VIDEO-C-IN

Yes ↓

Are the video signals outputted to each pin of CN1502?

CN1502	7PIN	VIDEO-Y(I/P)-OUT
CN1502	1PIN	VIDEO-Y(I)-OUT
CN1502	5PIN	VIDEO-Pr/Cr-OUT
CN1502	3PIN	VIDEO-Pb/Cb-OUT
CN1502	9PIN	VIDEO-C-OUT

No → Replace DVD MECHANISM & DVD MAIN CBA ASSEMBLY.

Yes ↓

Are the video signals shown above inputted into each pin of IC1509?

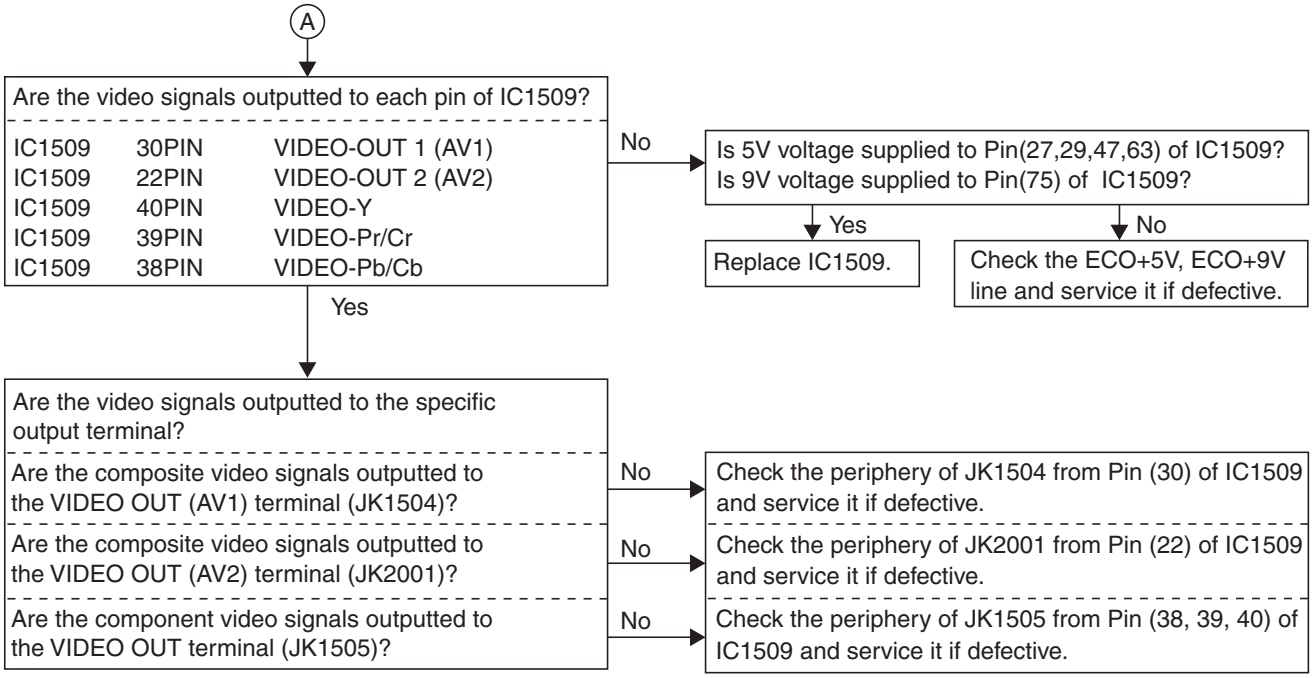
IC1509	51PIN	VIDEO-Y(I/P)-OUT
IC1509	55PIN	VIDEO-Y(I)-OUT
IC1509	52PIN	VIDEO-Pr/Cr-OUT
IC1509	53PIN	VIDEO-Pb/Cb-OUT
IC1509	57PIN	VIDEO-C-OUT

No → Check the line between each pin of CN1502 and each pin of IC1509, and service it if defective.

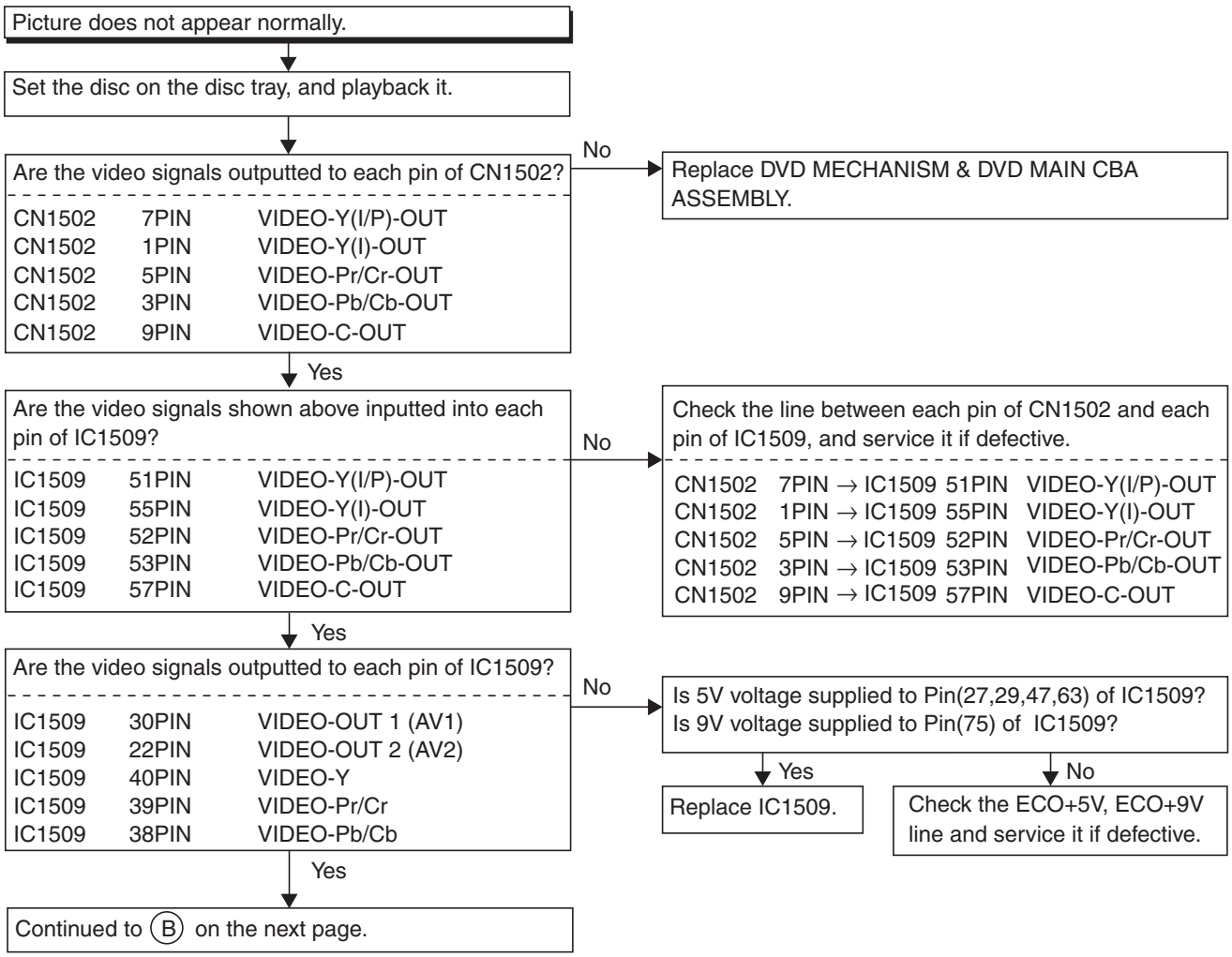
CN1502	7PIN → IC1509	51PIN	VIDEO-Y(I/P)-OUT
CN1502	1PIN → IC1509	55PIN	VIDEO-Y(I)-OUT
CN1502	5PIN → IC1509	52PIN	VIDEO-Pr/Cr-OUT
CN1502	3PIN → IC1509	53PIN	VIDEO-Pb/Cb-OUT
CN1502	9PIN → IC1509	57PIN	VIDEO-C-OUT

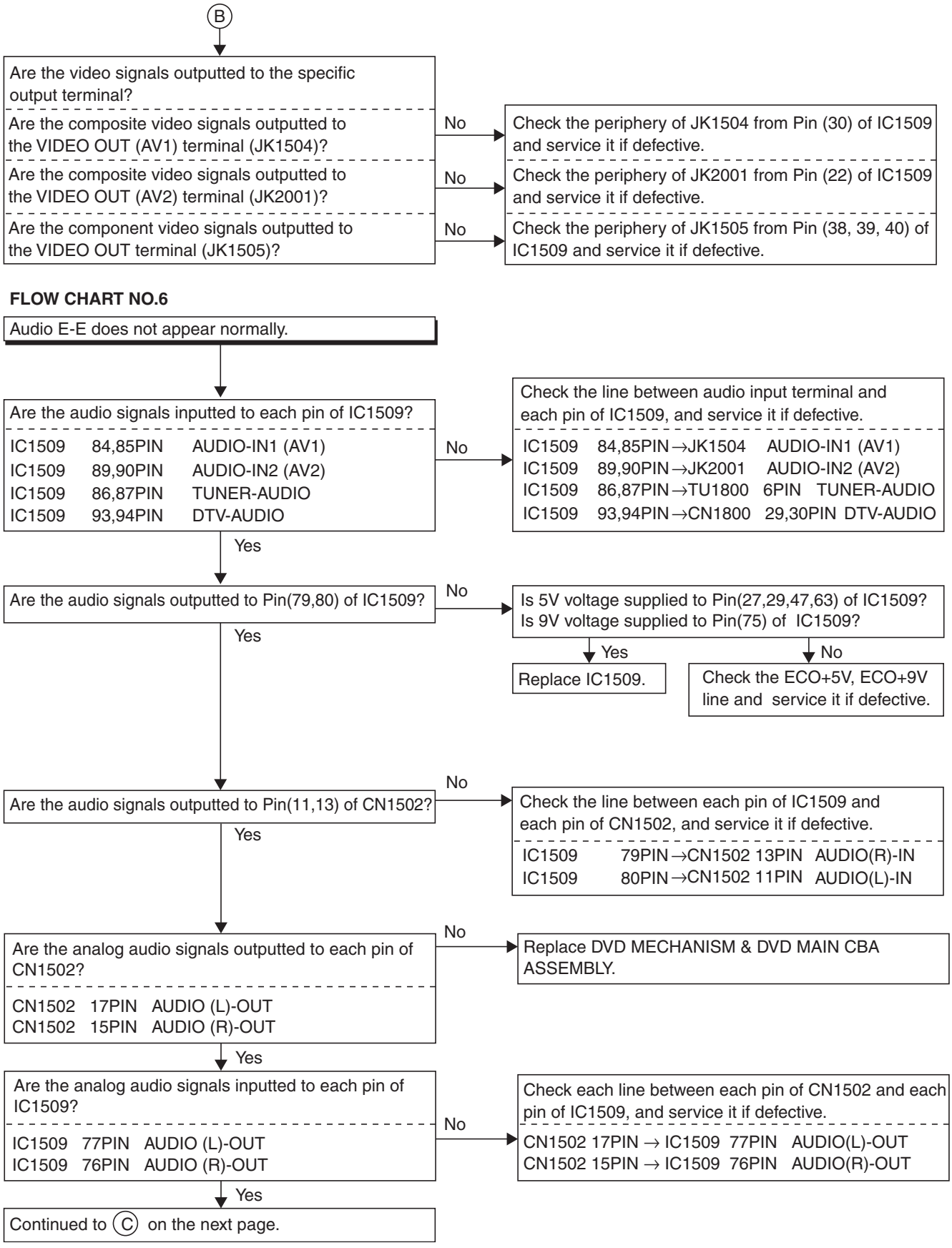
Yes ↓

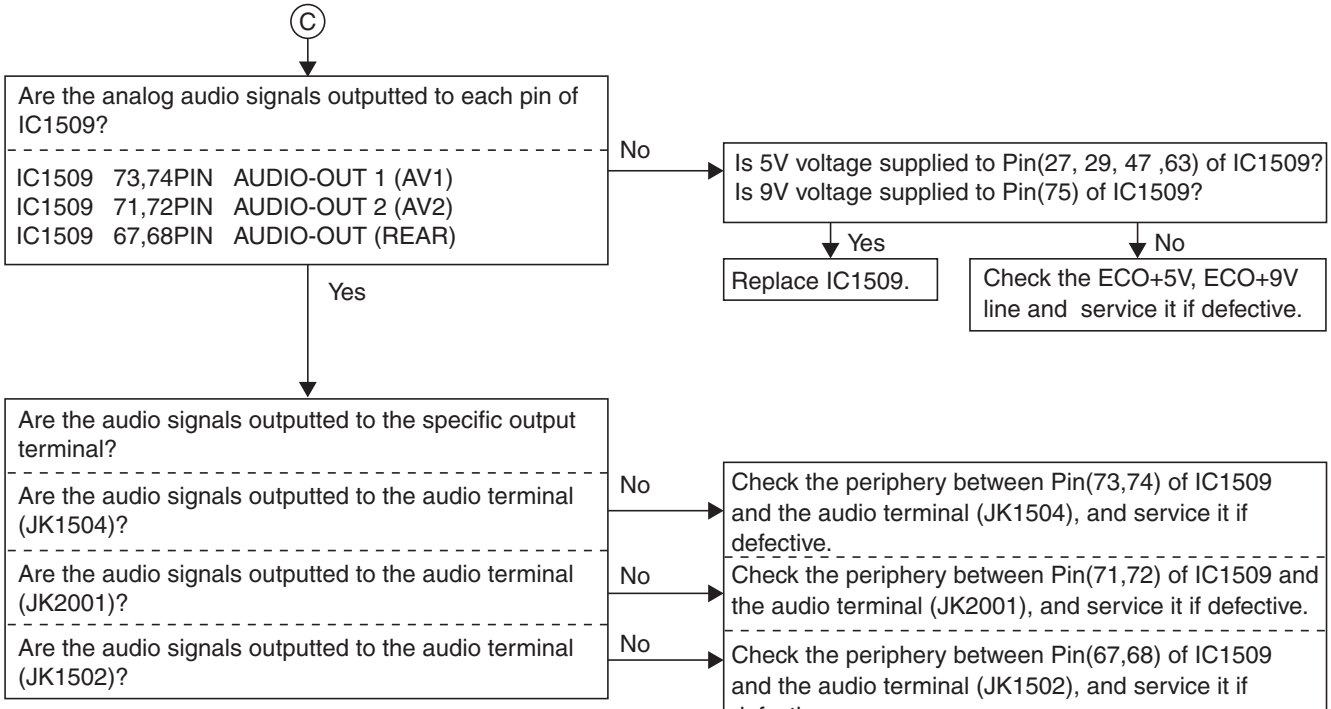
Continued to (A) on the next page.


A
Are the video signals outputted to each pin of IC1509?
IC1509 30PIN VIDEO-OUT 1 (AV1)
IC1509 22PIN VIDEO-OUT 2 (AV2)
IC1509 40PIN VIDEO-Y
IC1509 39PIN VIDEO-Pr/Cr
IC1509 38PIN VIDEO-Pb/Cb
No
Is 5V voltage supplied to Pin(27,29,47,63) of IC1509?
Is 9V voltage supplied to Pin(75) of IC1509?
Yes
No
Replace IC1509.
Check the ECO+5V, ECO+9V line and service it if defective.
Yes
Are the video signals outputted to the specific output terminal?
Are the composite video signals outputted to the VIDEO OUT (AV1) terminal (JK1504)?
No
Check the periphery of JK1504 from Pin (30) of IC1509 and service it if defective.
Are the composite video signals outputted to the VIDEO OUT (AV2) terminal (JK2001)?
No
Check the periphery of JK2001 from Pin (22) of IC1509 and service it if defective.
Are the component video signals outputted to the VIDEO OUT terminal (JK1505)?
No
Check the periphery of JK1505 from Pin (38, 39, 40) of IC1509 and service it if defective.

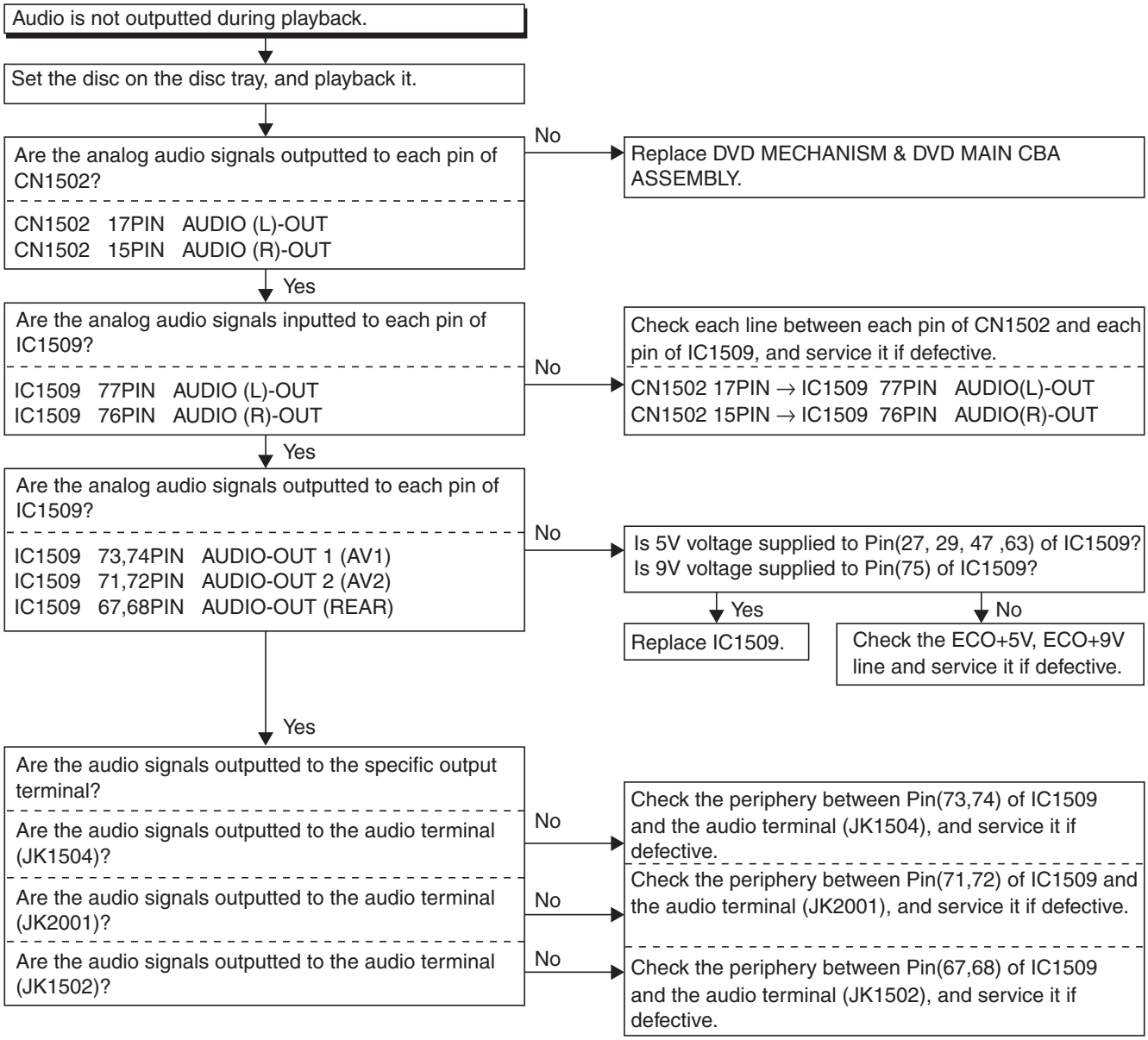
FLOW CHART NO.5


Picture does not appear normally.
Set the disc on the disc tray, and playback it.
Are the video signals outputted to each pin of CN1502?
CN1502 7PIN VIDEO-Y(I/P)-OUT
CN1502 1PIN VIDEO-Y(I)-OUT
CN1502 5PIN VIDEO-Pr/Cr-OUT
CN1502 3PIN VIDEO-Pb/Cb-OUT
CN1502 9PIN VIDEO-C-OUT
No
Replace DVD MECHANISM & DVD MAIN CBA ASSEMBLY.
Yes
Are the video signals shown above inputted into each pin of IC1509?
IC1509 51PIN VIDEO-Y(I/P)-OUT
IC1509 55PIN VIDEO-Y(I)-OUT
IC1509 52PIN VIDEO-Pr/Cr-OUT
IC1509 53PIN VIDEO-Pb/Cb-OUT
IC1509 57PIN VIDEO-C-OUT
No
Check the line between each pin of CN1502 and each pin of IC1509, and service it if defective.
CN1502 7PIN → IC1509 51PIN VIDEO-Y(I/P)-OUT
CN1502 1PIN → IC1509 55PIN VIDEO-Y(I)-OUT
CN1502 5PIN → IC1509 52PIN VIDEO-Pr/Cr-OUT
CN1502 3PIN → IC1509 53PIN VIDEO-Pb/Cb-OUT
CN1502 9PIN → IC1509 57PIN VIDEO-C-OUT
Yes
Are the video signals outputted to each pin of IC1509?
IC1509 30PIN VIDEO-OUT 1 (AV1)
IC1509 22PIN VIDEO-OUT 2 (AV2)
IC1509 40PIN VIDEO-Y
IC1509 39PIN VIDEO-Pr/Cr
IC1509 38PIN VIDEO-Pb/Cb
No
Is 5V voltage supplied to Pin(27,29,47,63) of IC1509?
Is 9V voltage supplied to Pin(75) of IC1509?
Yes
No
Replace IC1509.
Check the ECO+5V, ECO+9V line and service it if defective.
Yes
Continued to B on the next page.


B
Are the video signals outputted to the specific output terminal?
Are the composite video signals outputted to the VIDEO OUT (AV1) terminal (JK1504)?
No
Check the periphery of JK1504 from Pin (30) of IC1509 and service it if defective.
Are the composite video signals outputted to the VIDEO OUT (AV2) terminal (JK2001)?
No
Check the periphery of JK2001 from Pin (22) of IC1509 and service it if defective.
Are the component video signals outputted to the VIDEO OUT terminal (JK1505)?
No
Check the periphery of JK1505 from Pin (38, 39, 40) of IC1509 and service it if defective.
FLOW CHART NO.6
Audio E-E does not appear normally.
Are the audio signals inputted to each pin of IC1509?
IC1509 84,85PIN AUDIO-IN1 (AV1)
IC1509 89,90PIN AUDIO-IN2 (AV2)
IC1509 86,87PIN TUNER-AUDIO
IC1509 93,94PIN DTV-AUDIO
No
Check the line between audio input terminal and each pin of IC1509, and service it if defective.
IC1509 84,85PIN →JK1504 AUDIO-IN1 (AV1)
IC1509 89,90PIN →JK2001 AUDIO-IN2 (AV2)
IC1509 86,87PIN →TU1800 6PIN TUNER-AUDIO
IC1509 93,94PIN →CN1800 29,30PIN DTV-AUDIO
Yes
Are the audio signals outputted to Pin(79,80) of IC1509?
No
Is 5V voltage supplied to Pin(27,29,47,63) of IC1509?
Is 9V voltage supplied to Pin(75) of IC1509?
Yes
No
Replace IC1509.
Check the ECO+5V, ECO+9V line and service it if defective.
Yes
Are the audio signals outputted to Pin(11,13) of CN1502?
No
Check the line between each pin of IC1509 and each pin of CN1502, and service it if defective.
IC1509 79PIN →CN1502 13PIN AUDIO(R)-IN
IC1509 80PIN →CN1502 11PIN AUDIO(L)-IN
Yes
Are the analog audio signals outputted to each pin of CN1502?
CN1502 17PIN AUDIO (L)-OUT
CN1502 15PIN AUDIO (R)-OUT
No
Replace DVD MECHANISM & DVD MAIN CBA ASSEMBLY.
Yes
Are the analog audio signals inputted to each pin of IC1509?
IC1509 77PIN AUDIO (L)-OUT
IC1509 76PIN AUDIO (R)-OUT
No
Check each line between each pin of CN1502 and each pin of IC1509, and service it if defective.
CN1502 17PIN → IC1509 77PIN AUDIO(L)-OUT
CN1502 15PIN → IC1509 76PIN AUDIO(R)-OUT
Yes
Continued to C on the next page.


C
Are the analog audio signals outputted to each pin of IC1509?
IC1509 73,74PIN AUDIO-OUT 1 (AV1)
IC1509 71,72PIN AUDIO-OUT 2 (AV2)
IC1509 67,68PIN AUDIO-OUT (REAR)
No
Is 5V voltage supplied to Pin(27, 29, 47 ,63) of IC1509?
Is 9V voltage supplied to Pin(75) of IC1509?
Yes
No
Replace IC1509.
Check the ECO+5V, ECO+9V line and service it if defective.
Yes
Are the audio signals outputted to the specific output terminal?
Are the audio signals outputted to the audio terminal (JK1504)?
No
Check the periphery between Pin(73,74) of IC1509 and the audio terminal (JK1504), and service it if defective.
Are the audio signals outputted to the audio terminal (JK2001)?
No
Check the periphery between Pin(71,72) of IC1509 and the audio terminal (JK2001), and service it if defective.
Are the audio signals outputted to the audio terminal (JK1502)?
No
Check the periphery between Pin(67,68) of IC1509 and the audio terminal (JK1502), and service it if defective.

FLOW CHART NO.7


Audio is not outputted during playback.
Set the disc on the disc tray, and playback it.
Are the analog audio signals outputted to each pin of CN1502?
CN1502 17PIN AUDIO (L)-OUT
CN1502 15PIN AUDIO (R)-OUT
No
Replace DVD MECHANISM & DVD MAIN CBA ASSEMBLY.
Yes
Are the analog audio signals inputted to each pin of IC1509?
IC1509 77PIN AUDIO (L)-OUT
IC1509 76PIN AUDIO (R)-OUT
No
Check each line between each pin of CN1502 and each pin of IC1509, and service it if defective.
CN1502 17PIN → IC1509 77PIN AUDIO(L)-OUT
CN1502 15PIN → IC1509 76PIN AUDIO(R)-OUT
Yes
Are the analog audio signals outputted to each pin of IC1509?
IC1509 73,74PIN AUDIO-OUT 1 (AV1)
IC1509 71,72PIN AUDIO-OUT 2 (AV2)
IC1509 67,68PIN AUDIO-OUT (REAR)
No
Is 5V voltage supplied to Pin(27, 29, 47 ,63) of IC1509?
Is 9V voltage supplied to Pin(75) of IC1509?
Yes
No
Replace IC1509.
Check the ECO+5V, ECO+9V line and service it if defective.
Yes
Are the audio signals outputted to the specific output terminal?
Are the audio signals outputted to the audio terminal (JK1504)?
No
Check the periphery between Pin(73,74) of IC1509 and the audio terminal (JK1504), and service it if defective.
Are the audio signals outputted to the audio terminal (JK2001)?
No
Check the periphery between Pin(71,72) of IC1509 and the audio terminal (JK2001), and service it if defective.
Are the audio signals outputted to the audio terminal (JK1502)?
No
Check the periphery between Pin(67,68) of IC1509 and the audio terminal (JK1502), and service it if defective.

3 VCR Section

FLOW CHART NO.1

The key operation is not functioning.

↓

Are the contact point and the installation state of the key switches normal?

No → Re-install the key switches correctly or replace the defective key switches.

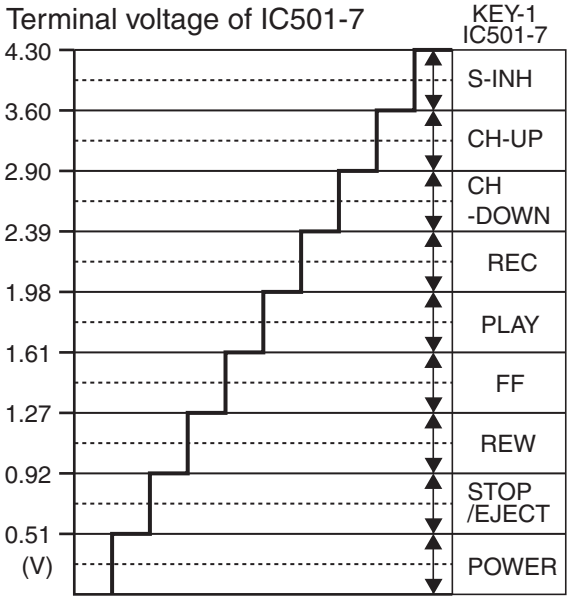
↓ Yes

Is the control voltage normally inputted into Pin(7) of IC501?

No → Check the key switches and their periphery, and service it if defective.

↓ Yes

Check IC501 and their periphery, and service it if defective.



FLOW CHART NO.2

No VCR operation is possible from the remote control. (Operation is possible from the unit.)

↓

Is 5V voltage supplied to the Pin(3) terminal of the RS1501 (remote control receiver)?

No → Check SYS+5V line and service it if defective.

↓ Yes

Is the "L" pulse sent out from Pin(1) terminal of the RS1501 (remote control receiver) when the remote control is activated?

No → Replace the RS1501 (remote control receiver) or the remote control unit.

↓ Yes

Is the "L" pulse signal supplied to Pin(14) of IC501?

No → Check the line between the RS1501 (remote control receiver) and Pin(14) of IC501, and service it if defective.

↓ Yes

Check IC501 and their periphery, and service it if defective.

FLOW CHART NO.3

Cassette tape can not be loaded.

When loading a cassette tape, on Pin(100) of IC501, does the "L" pulse switch to the "H" pulse?
- No → Check the line between the start sensor and Pin(100) of IC501, and service it if defective.
- Yes ↓

When loading a cassette tape, is the specified voltage (approximately 13V) outputted to the terminal of the Loading Motor Unit?
- No → Replace the Capstan Motor Unit.
- Yes ↓

Replace the Loading Motor Unit.

FLOW CHART NO.4

Cassette tape is ejected right after the loading.

When loading a cassette tape, on Pin(100) of IC501, does the "L" pulse switch to the "H" pulse?
- No → Check the line between the start sensor and Pin(100) of IC501, and service it if defective.
- Yes ↓

When loading a cassette tape, on Pin(4) of IC501, does the "L" pulse switch to the "H" pulse?
- No → Check the line between the end sensor and Pin(4) of IC501, and service it if defective.
- Yes ↓

When loading a cassette tape, does the LD-SW operate normally?
- No → Check the line between the LD-SW(SW507) and Pin(9) of IC501, and service it if defective.
- Yes ↓

Replace IC501.

FLOW CHART NO.5

Cassette tape can not be ejected.

When pressing the eject button, does the Capstan Motor start rotating?
- No → Refer to "FLOW CHART NO.6 " <The Capstan Motor does not rotate>.
- Yes ↓

While the Capstan Motor is rotating, is the Takeup Reel rotating?
- No → Check the Reel Disc or Clutch Assembly, and service it if defective.
- Yes ↓

While the Takeup Reel is rotating, is the reel pulse signal inputted to Pin(80) of IC501?
- No → Check the line between the Takeup Reel sensor and Pin(80) of IC501, and service it if defective.
- Yes ↓

While the reel pulse signal is inputting, is "L" pulse outputted to Pin(81) of IC501?
- No → Replace IC501.
- Yes ↓

Is the specified voltage (approximately 13V) outputted to the terminal of the Loading Motor Unit?
- No → Replace the Capstan Motor.
- Yes ↓

Is the Loading Motor rotating?
- No → Replace the Loading Motor.
- Yes ↓

Check the Cam Gear or Rack Assembly, etc., and service it if defective.

FLOW CHART NO.6

Capstan Motor does not rotate.

↓

Is 5V voltage supplied to Pin(2) of CN502? — No → Check the P-ON+5V line and service it if defective.

↓ Yes

Is over approximately 2.6V voltage supplied to Pin(5) of CN502? — No → Check the line between Pin(5) of CN502 and Pin(76) of IC501, and service it if defective.

↓ Yes

Is 12V voltage supplied to Pin(1) of CN502? — No → Check AL+16V/+12V line, and service it if defective.

↓ Yes

Replace the Capstan Motor.

FLOW CHART NO.7

Drum Motor does not rotate.

↓

Is 5V voltage supplied to Pin(2) of CN502? — No → Check the P-ON+5V line and service it if defective.

↓ Yes

Is over approximately 2.6V voltage supplied to Pin(8) of CN502? — No → Check the line between Pin(8) of CN502 and Pin(77) of IC501, and service it if defective.

↓ Yes

Is 12V voltage supplied at Pin(11) of CN502? — No → Check the AL+12V line, and service it if defective.

↓ Yes

Replace the Capstan Motor or the Cylinder Assembly.

FLOW CHART NO.8

Drum Motor rotates only for a few seconds.

↓

Is the D-PFG signal inputted to Pin(90) of IC501? — No → Replace the Capstan Motor or the Cylinder Assembly.

↓ Yes

Is the RF-SW signal outputted to Pin(18) of IC501? — No → Replace IC501.

↓ Yes

Is 12V voltage supplied Pin(11) of CN 502? — No → Check the AL+12V line, and service it if defective.

↓ Yes

Replace the Capstan Motor or the Cylinder Assembly.

FLOW CHART NO.9

RF-SW signal is not outputted.

↓

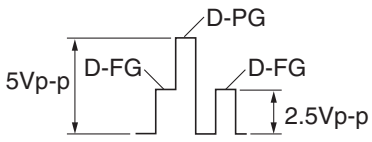
Is the Drum Motor rotating? — No → Refer to "FLOW CHART NO.7" <Drum Motor does not rotate> and "FLOW CHART NO.8" <Drum Motor rotates only for a few seconds>.

↓ Yes

Is the D-PFG signal inputted to Pin(90) of IC501? — No → Replace the Capstan Motor or the Cylinder Assembly.

↓ Yes

Replace IC501.



FLOW CHART NO.10

Video E-E does not appear normally.

Are the video signals inputted to each pin of IC1509?

IC1509	20PIN	VIDEO-IN 1 (AV1)
IC1509	12PIN	VIDEO-IN 2 (AV2)
IC1509	18PIN	TUNER-VIDEO
IC1509	3PIN	DTV-Y
IC1509	5PIN	DTV-C

No → Check the line between video input terminal and each pin of IC1509, and service it if defective.

IC1509	20PIN → JK1504		VIDEO-IN 1 (AV1)
IC1509	12PIN → JK2001		VIDEO-IN 2 (AV2)
IC1509	18PIN → TU1800	17PIN	TUNER-VIDEO
IC1509	3PIN → CN1800	26PIN	DTV-Y
IC1509	5PIN → CN1800	28PIN	DTV-C

Yes

Are the video signals outputted to Pin(24) of IC1509?

No → Is 5V voltage supplied to Pin(27,29,47,63) of IC1509? Is 9V voltage supplied to Pin(75) of IC1509?

Yes → Replace IC1509.

No → Check the ECO+5V, ECO+9V line and service it if defective.

Yes

Is the video signal inputted to Pin(48) of IC301?

No → Check the line between Pin(24) of IC1509 and Pin(48) of IC301, and service it if defective.

Yes

Is the C-SYNC signal outputted to Pin(67) of IC301?

Yes

Is the C-SYNC signal inputted to Pin(58) of IC501?

Yes

No → Check the line between Pin(67) of IC301 and Pin(58) of IC501, and service it if defective.

No

Is 5V voltage supplied to Pin(18,24,42,55,72,91) of IC301?

Yes

No → Check the P-ON+5V line and service it if defective.

Yes → Is the serial data and clock signal supplied to Pin(68,69) of IC301?

Yes → Replace IC301.

No → Check the line between Pin(68,69) of IC301 and Pin (71, 72) of IC501, and service it if defective.

Is the video signal inputted into Pin(100) of IC1509?

No → Check the line between Pin(61) of IC301 and Pin(100) of IC1509, and service it if defective.

Yes

Are the video signals outputted to each pin of IC1509?

IC1509	30PIN	VIDEO-OUT 1 (AV1)
IC1509	22PIN	VIDEO-OUT 2 (AV2)

No → Is 5V voltage supplied to Pin(27,29,47,63) of IC1509? Is 9V voltage supplied to Pin(75) of IC1509?

Yes → Replace IC1509.

No → Check the ECO+5V, ECO+9V line and service it if defective.

Yes

Are the video signals outputted to the specific output terminal?

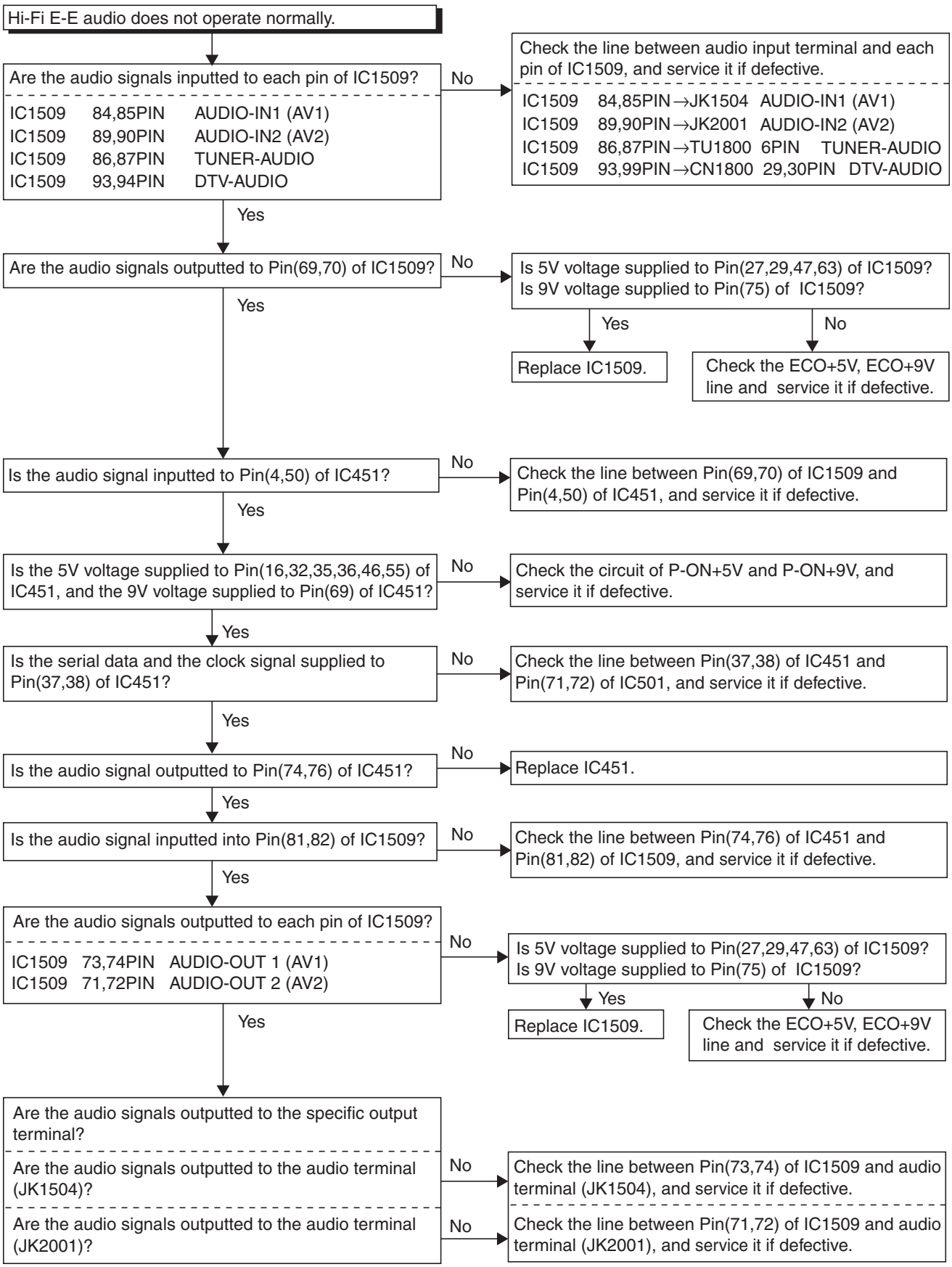
Are the composite video signals outputted to the VIDEO-OUT terminal (JK1504)?

No → Check the periphery of JK1504 from Pin(30) of IC1509 and service it if defective.

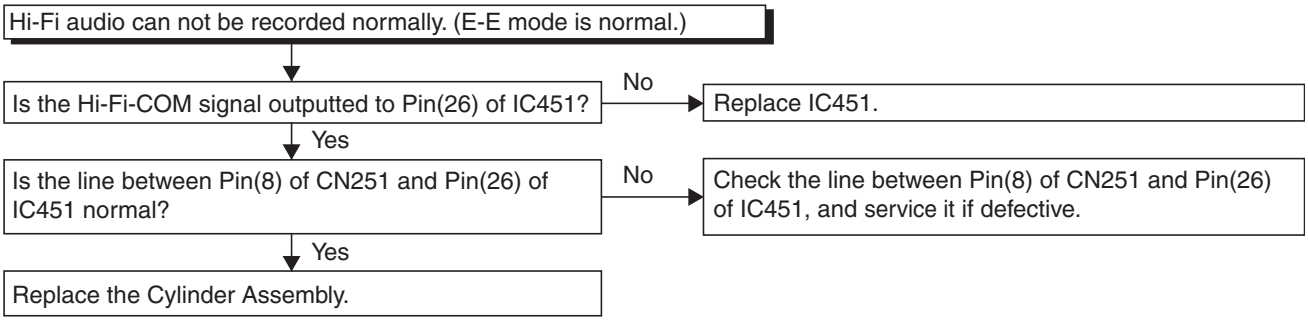
Are the composite video signals outputted to the VIDEO-OUT terminal (JK2001)?

No → Check the periphery of JK2001 from Pin(22) of IC1509 and service it if defective.

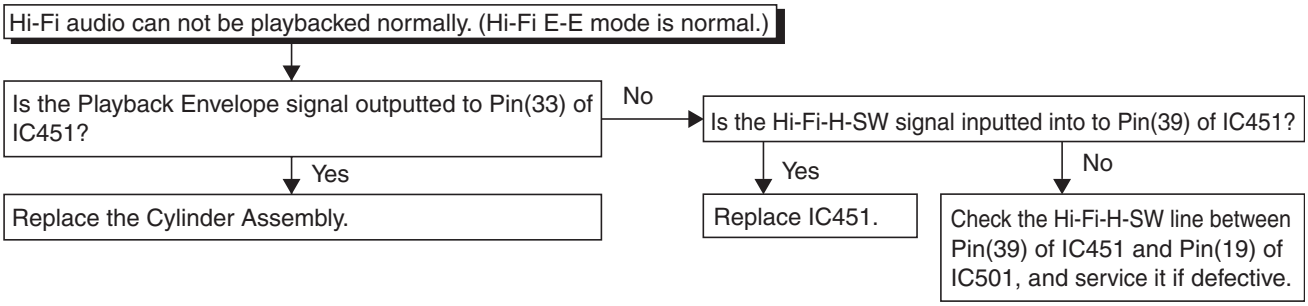
FLOW CHART NO.11


Hi-Fi E-E audio does not operate normally.
Are the audio signals inputted to each pin of IC1509?
IC1509 84,85PIN AUDIO-IN1 (AV1)
IC1509 89,90PIN AUDIO-IN2 (AV2)
IC1509 86,87PIN TUNER-AUDIO
IC1509 93,94PIN DTV-AUDIO
No
Check the line between audio input terminal and each pin of IC1509, and service it if defective.
IC1509 84,85PIN →JK1504 AUDIO-IN1 (AV1)
IC1509 89,90PIN →JK2001 AUDIO-IN2 (AV2)
IC1509 86,87PIN →TU1800 6PIN TUNER-AUDIO
IC1509 93,99PIN →CN1800 29,30PIN DTV-AUDIO
Yes
Are the audio signals outputted to Pin(69,70) of IC1509?
No
Is 5V voltage supplied to Pin(27,29,47,63) of IC1509?
Is 9V voltage supplied to Pin(75) of IC1509?
Yes
No
Replace IC1509.
Check the ECO+5V, ECO+9V line and service it if defective.
Yes
Is the audio signal inputted to Pin(4,50) of IC451?
No
Check the line between Pin(69,70) of IC1509 and Pin(4,50) of IC451, and service it if defective.
Yes
Is the 5V voltage supplied to Pin(16,32,35,36,46,55) of IC451, and the 9V voltage supplied to Pin(69) of IC451?
No
Check the circuit of P-ON+5V and P-ON+9V, and service it if defective.
Yes
Is the serial data and the clock signal supplied to Pin(37,38) of IC451?
No
Check the line between Pin(37,38) of IC451 and Pin(71,72) of IC501, and service it if defective.
Yes
Is the audio signal outputted to Pin(74,76) of IC451?
No
Replace IC451.
Yes
Is the audio signal inputted into Pin(81,82) of IC1509?
No
Check the line between Pin(74,76) of IC451 and Pin(81,82) of IC1509, and service it if defective.
Yes
Are the audio signals outputted to each pin of IC1509?
IC1509 73,74PIN AUDIO-OUT 1 (AV1)
IC1509 71,72PIN AUDIO-OUT 2 (AV2)
No
Is 5V voltage supplied to Pin(27,29,47,63) of IC1509?
Is 9V voltage supplied to Pin(75) of IC1509?
Yes
No
Replace IC1509.
Check the ECO+5V, ECO+9V line and service it if defective.
Yes
Are the audio signals outputted to the specific output terminal?
Are the audio signals outputted to the audio terminal (JK1504)?
No
Check the line between Pin(73,74) of IC1509 and audio terminal (JK1504), and service it if defective.
Are the audio signals outputted to the audio terminal (JK2001)?
No
Check the line between Pin(71,72) of IC1509 and audio terminal (JK2001), and service it if defective.

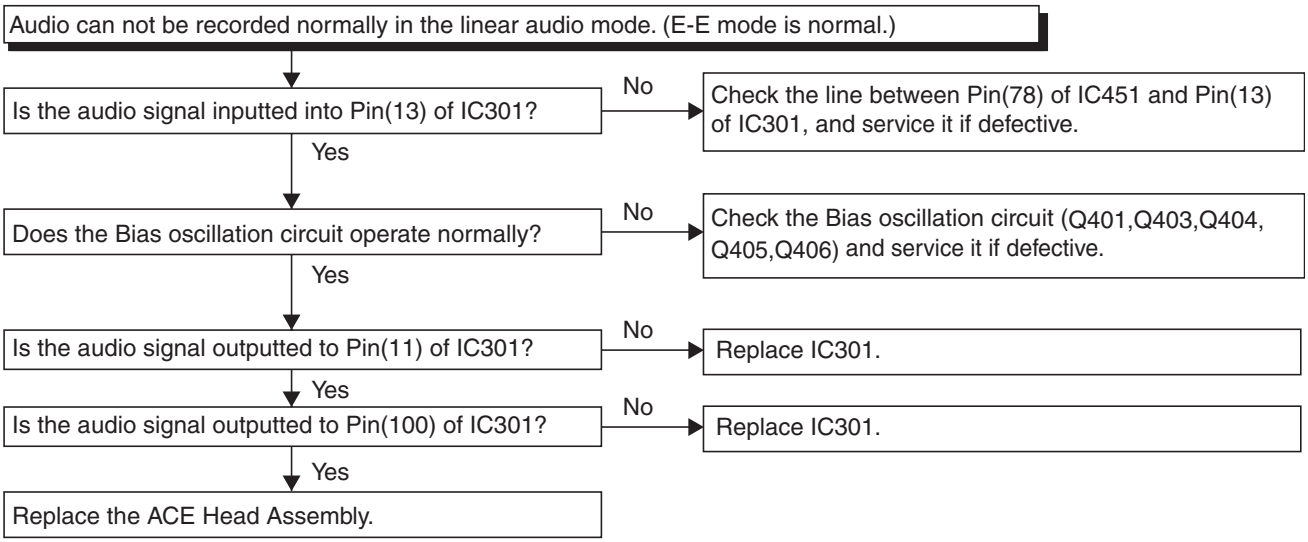
FLOW CHART NO.12


Hi-Fi audio can not be recorded normally. (E-E mode is normal.)
Is the Hi-Fi-COM signal outputted to Pin(26) of IC451?
No
Replace IC451.
Yes
Is the line between Pin(8) of CN251 and Pin(26) of IC451 normal?
No
Check the line between Pin(8) of CN251 and Pin(26) of IC451, and service it if defective.
Yes
Replace the Cylinder Assembly.

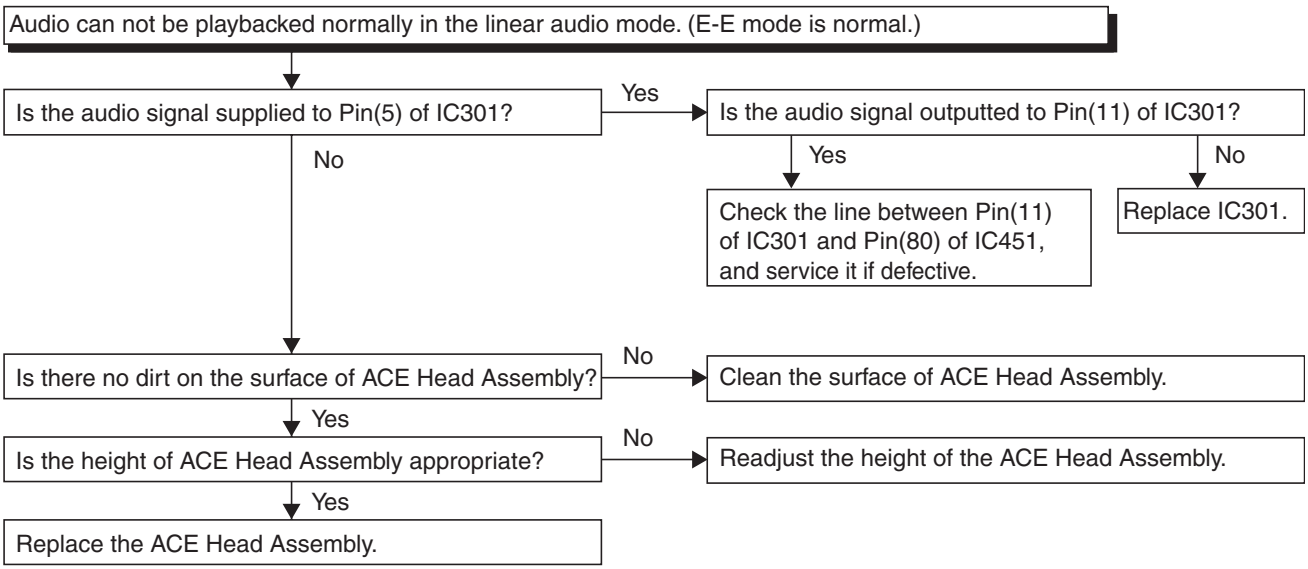
FLOW CHART NO.13


Hi-Fi audio can not be playbacked normally. (Hi-Fi E-E mode is normal.)
Is the Playback Envelope signal outputted to Pin(33) of IC451?
No
Is the Hi-Fi-H-SW signal inputted into to Pin(39) of IC451?
Yes
No
Yes
Replace the Cylinder Assembly.
Replace IC451.
Check the Hi-Fi-H-SW line between Pin(39) of IC451 and Pin(19) of IC501, and service it if defective.

FLOW CHART NO.14

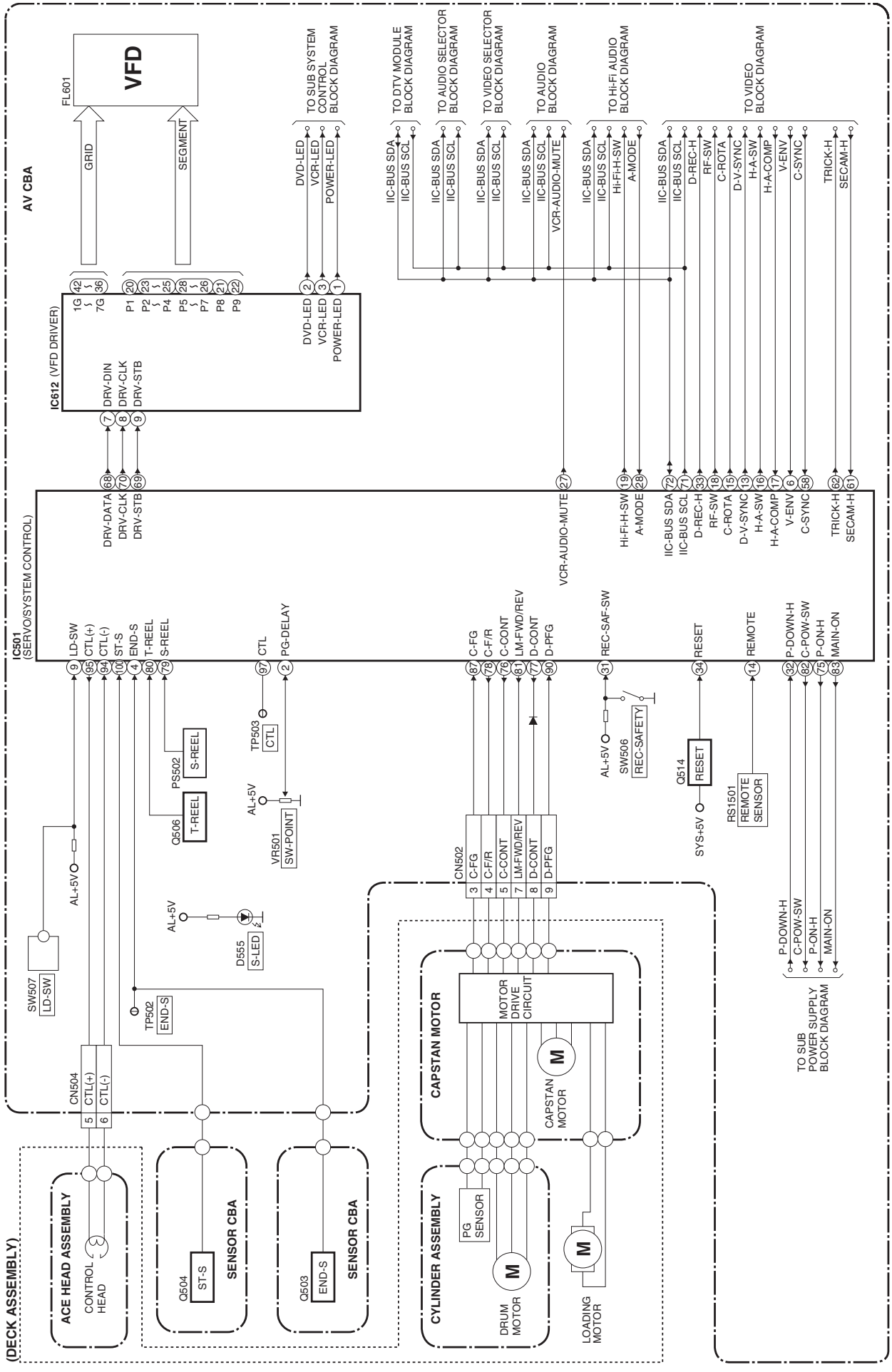

Audio can not be recorded normally in the linear audio mode. (E-E mode is normal.)
Is the audio signal inputted into Pin(13) of IC301?
No
Check the line between Pin(78) of IC451 and Pin(13) of IC301, and service it if defective.
Yes
Does the Bias oscillation circuit operate normally?
No
Check the Bias oscillation circuit (Q401,Q403,Q404, Q405,Q406) and service it if defective.
Yes
Is the audio signal outputted to Pin(11) of IC301?
No
Replace IC301.
Yes
Is the audio signal outputted to Pin(100) of IC301?
No
Replace IC301.
Yes
Replace the ACE Head Assembly.

FLOW CHART NO.15

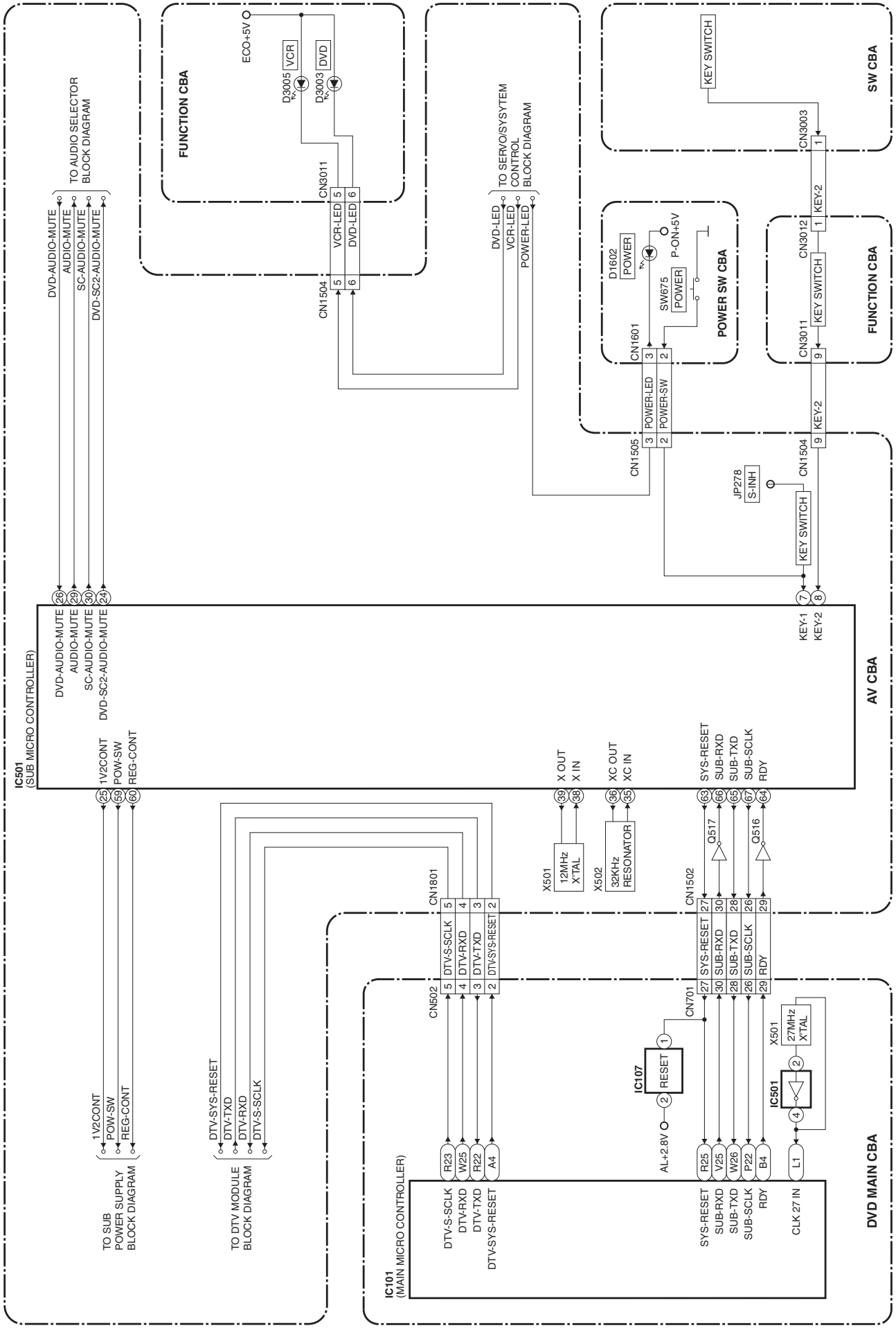

Audio can not be playbacked normally in the linear audio mode. (E-E mode is normal.)
Is the audio signal supplied to Pin(5) of IC301?
Yes
Is the audio signal outputted to Pin(11) of IC301?
No
Yes
No
Check the line between Pin(11) of IC301 and Pin(80) of IC451, and service it if defective.
Replace IC301.
Is there no dirt on the surface of ACE Head Assembly?
No
Clean the surface of ACE Head Assembly.
Yes
Is the height of ACE Head Assembly appropriate?
No
Readjust the height of the ACE Head Assembly.
Yes
Replace the ACE Head Assembly.

BLOCK DIAGRAMS

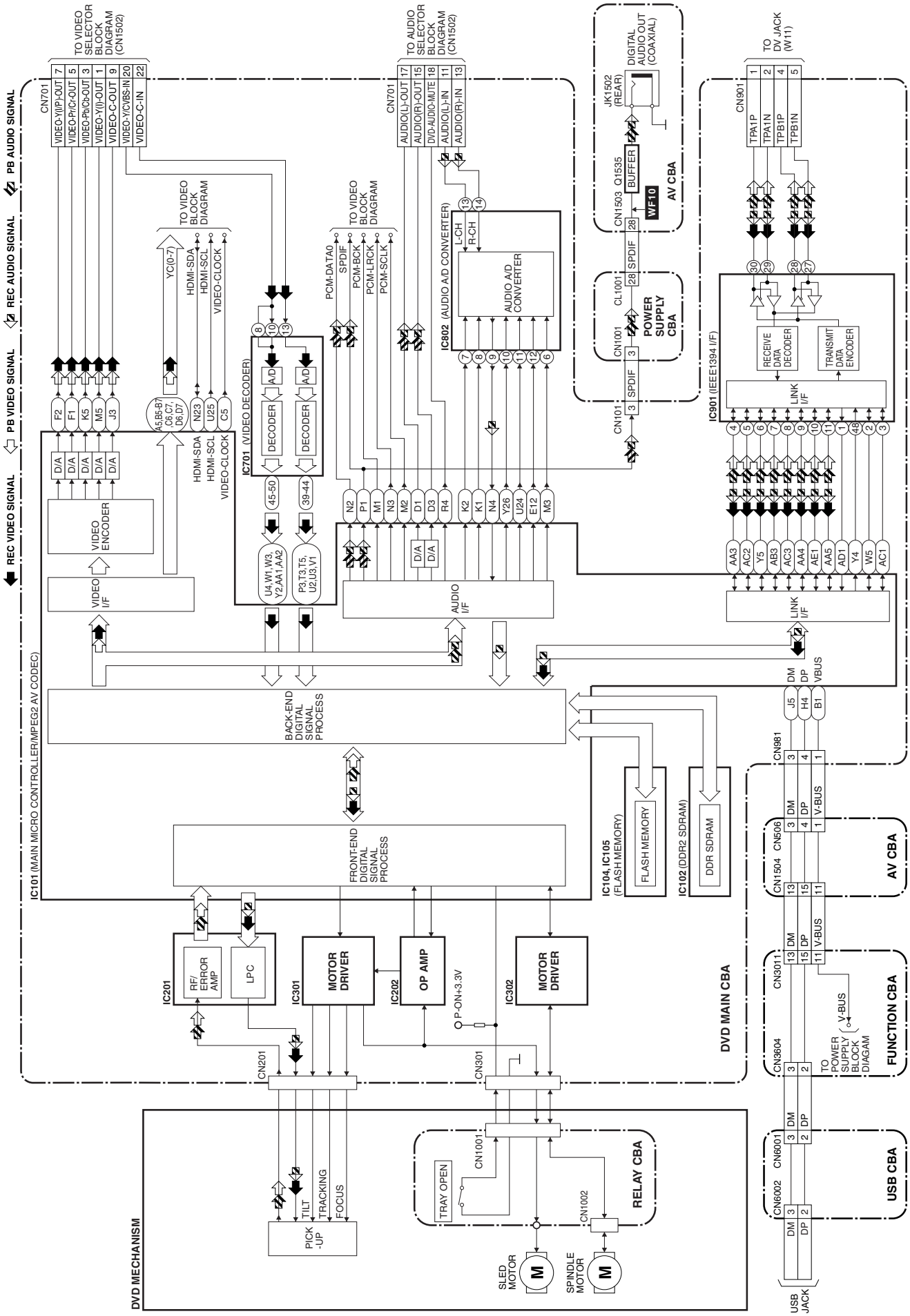
Servo/System Control Block Diagram



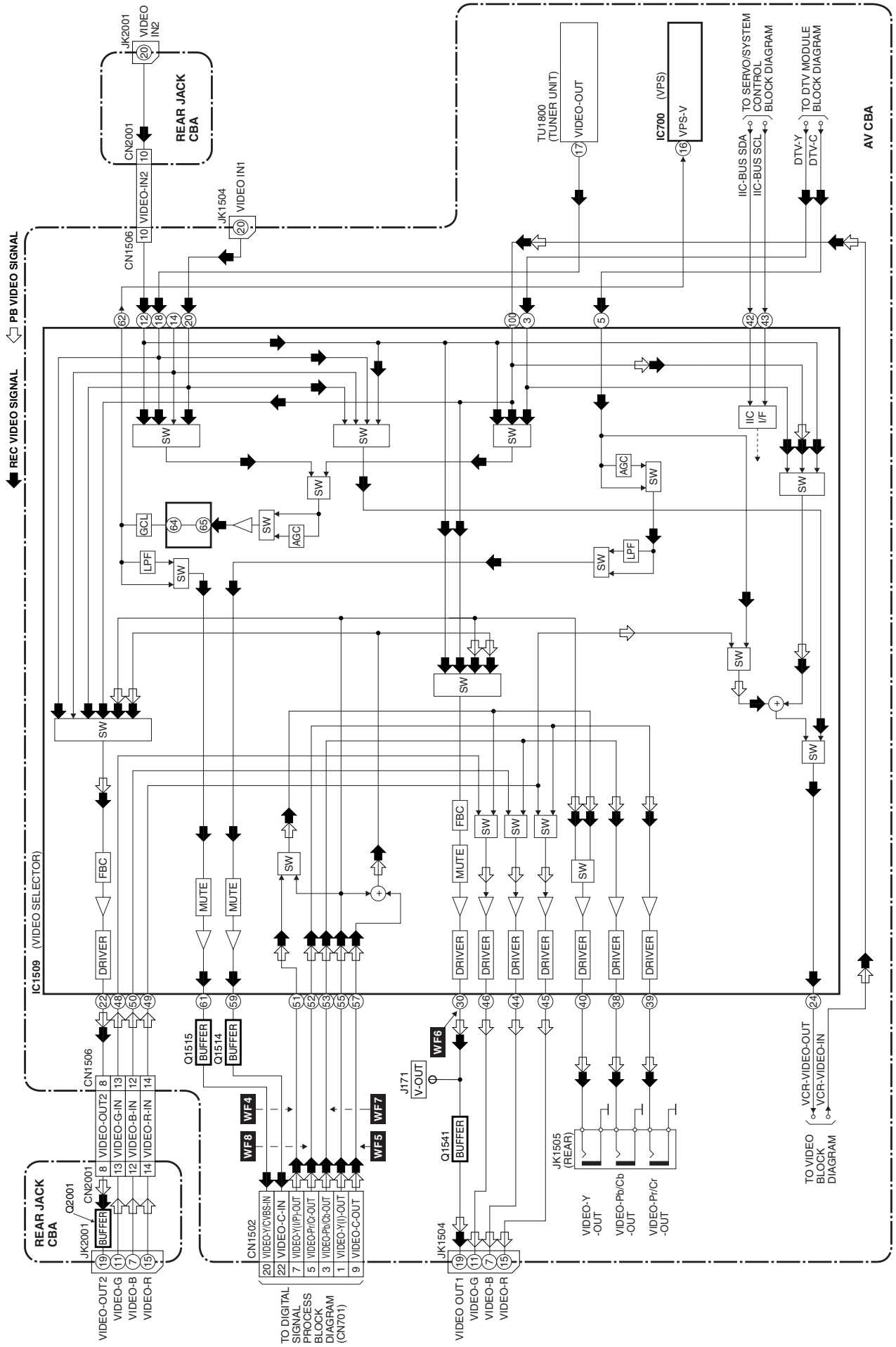
Sub System Control Block Diagram



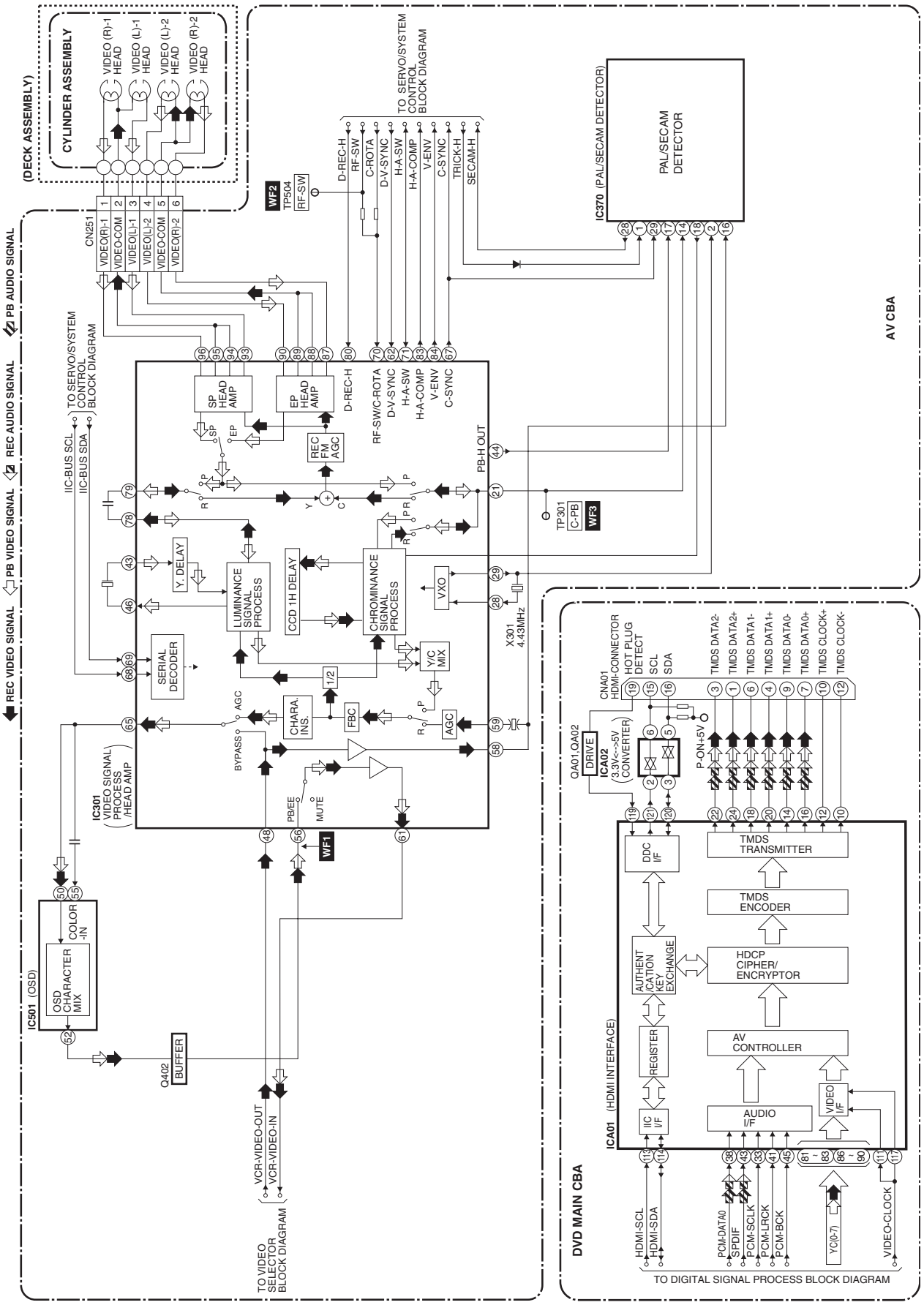
Digital Signal Process Block Diagram



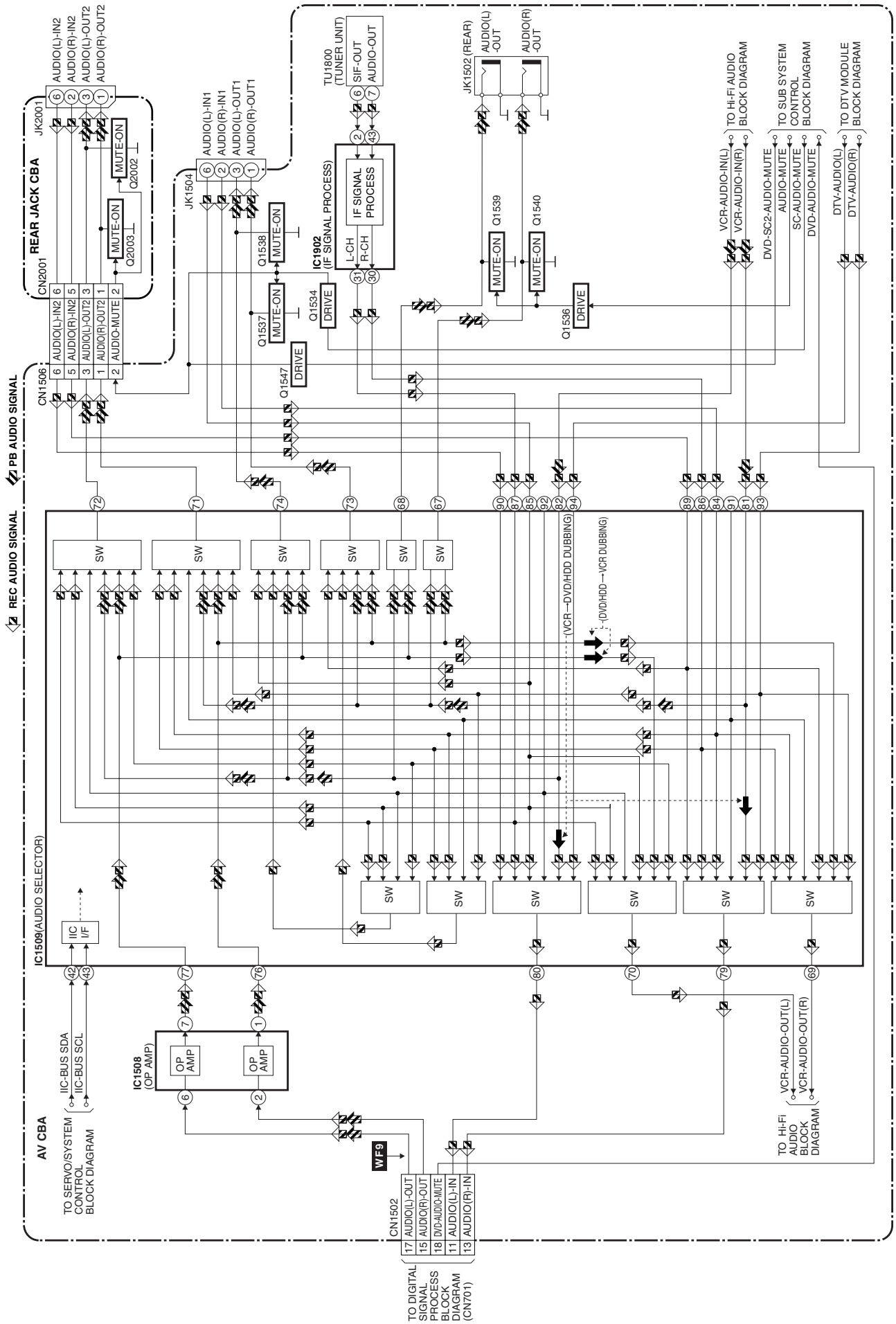
Video Selector Block Diagram



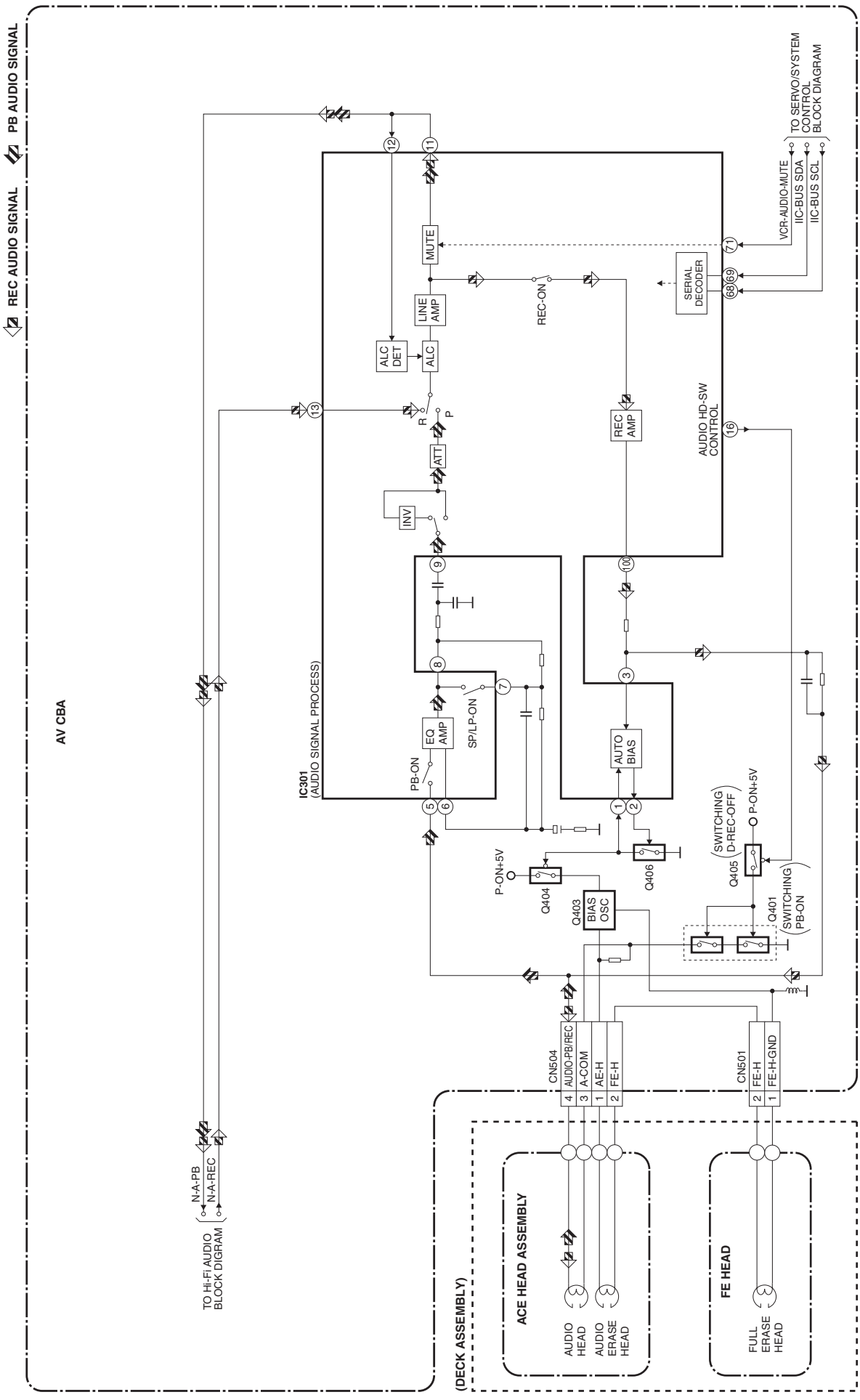
Video Block Diagram



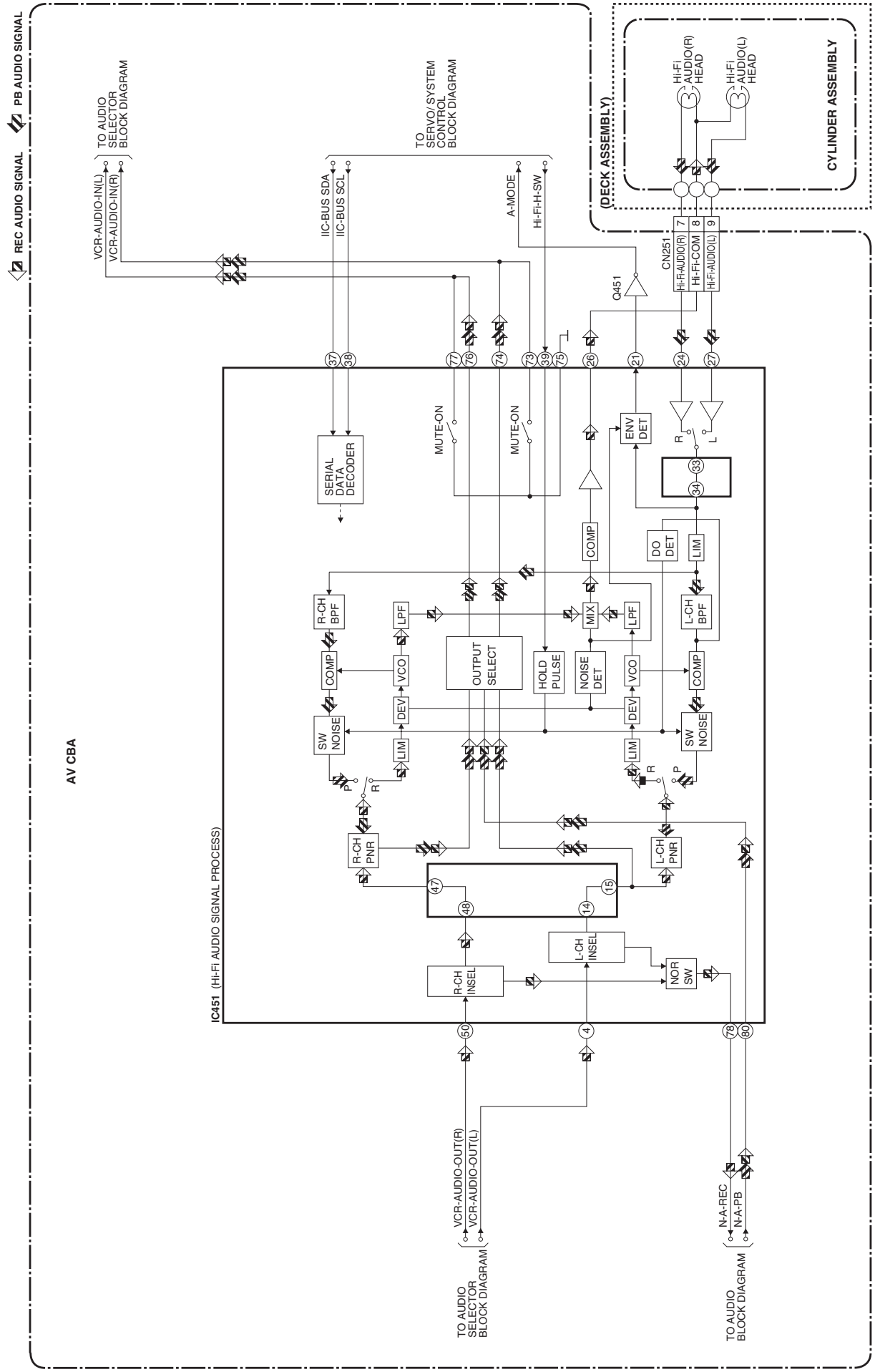
Audio Selector Block Diagram



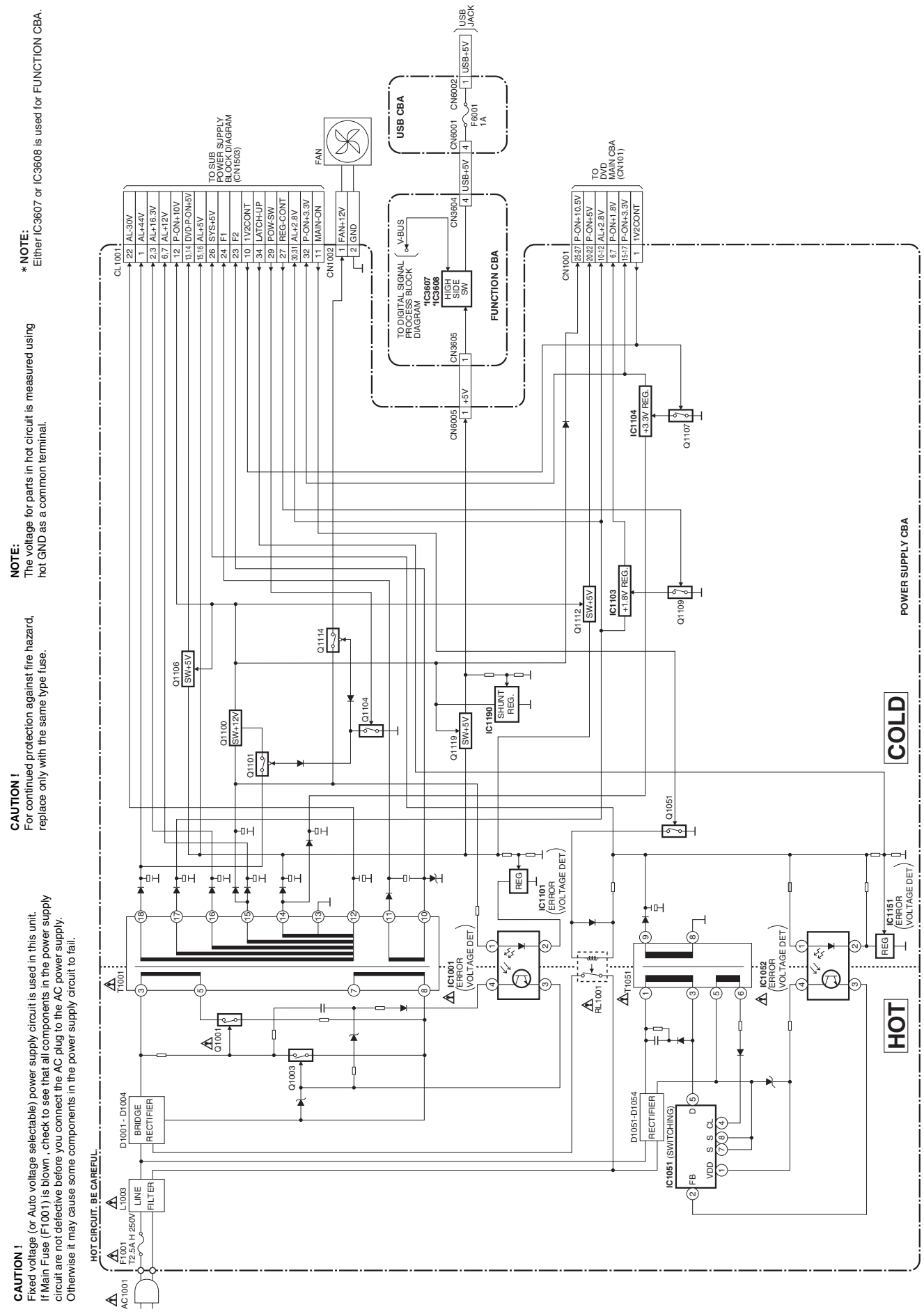
Audio Block Diagram



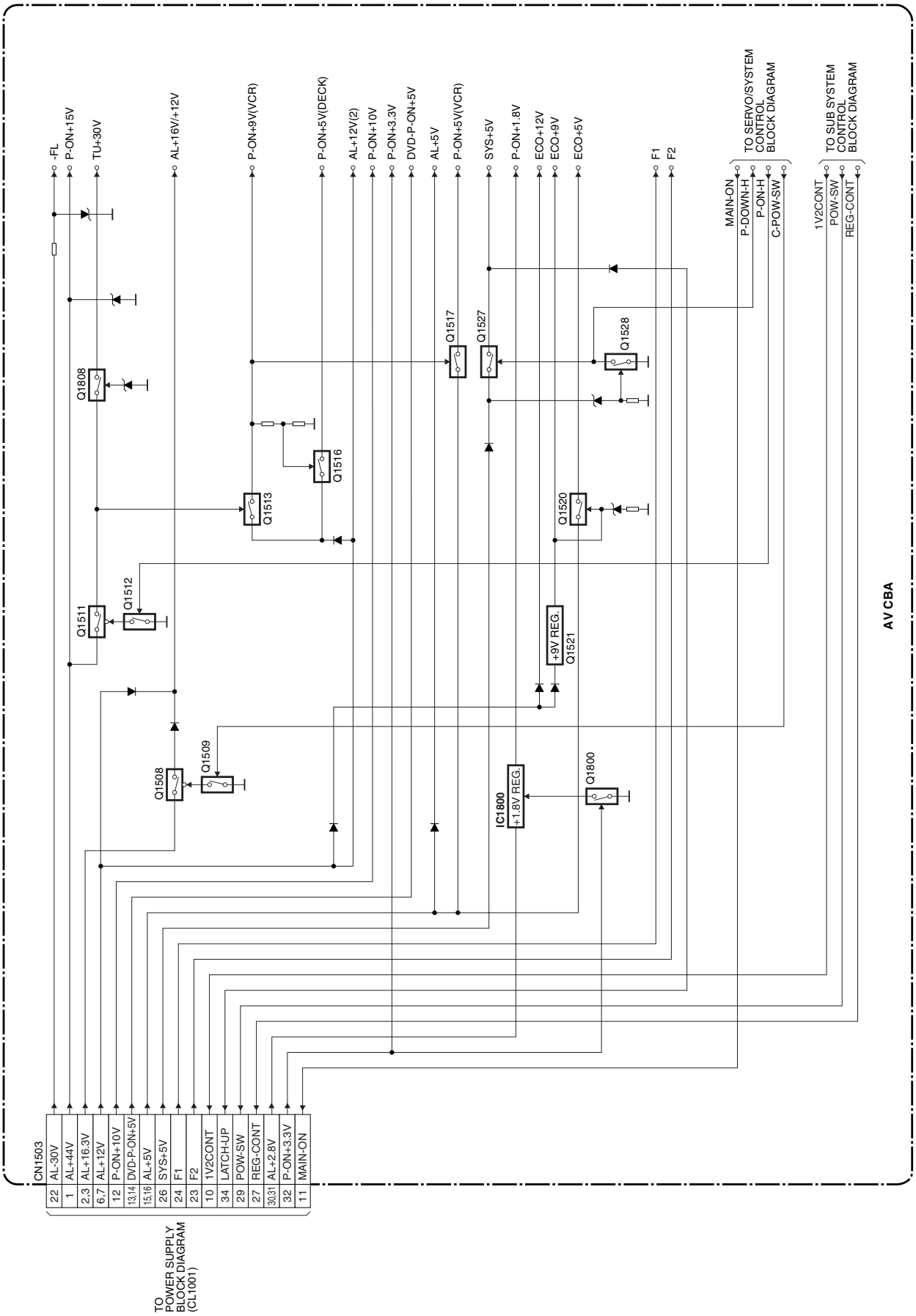
Hi-Fi Audio Block Diagram



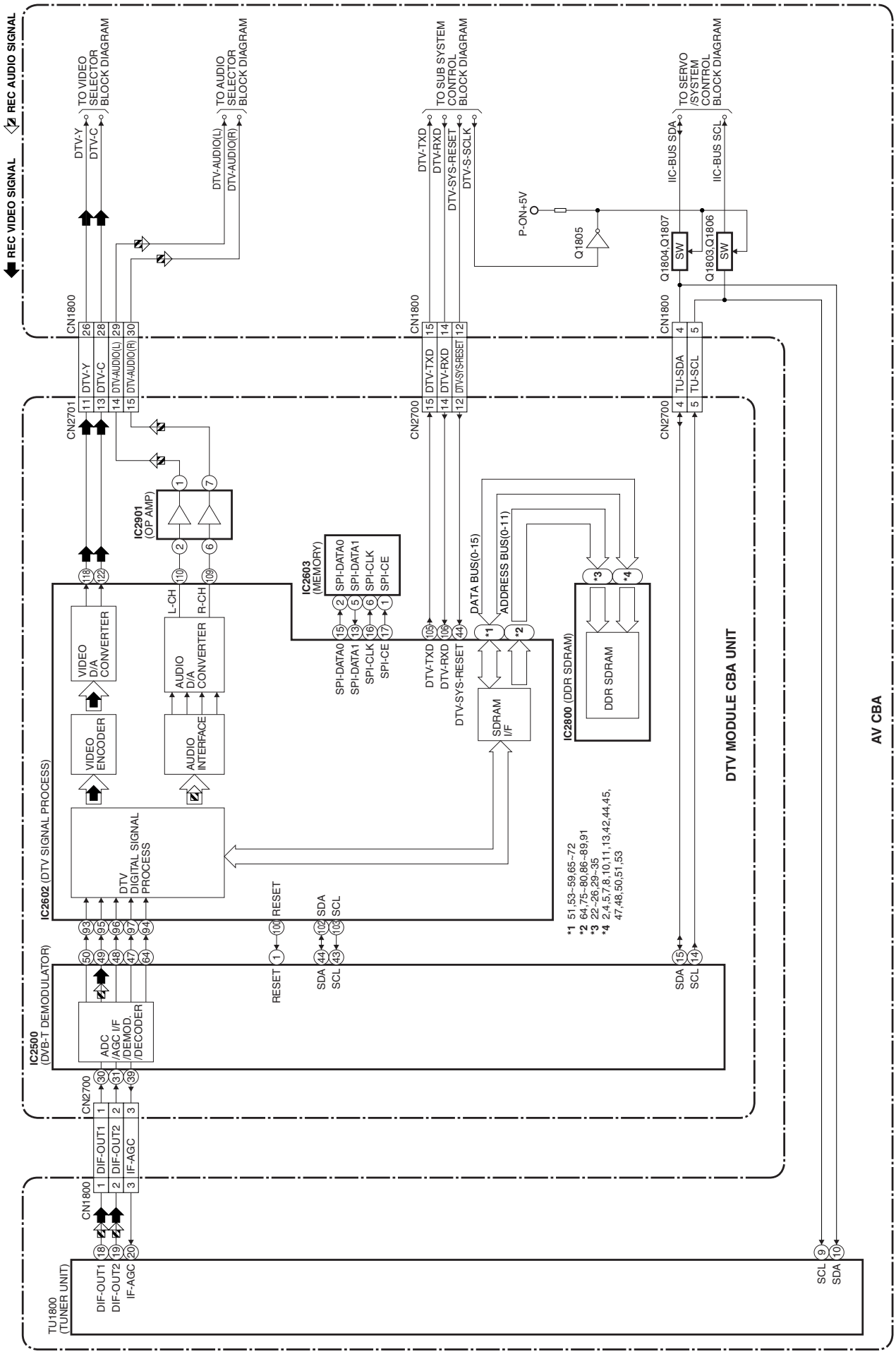
Power Supply Block Diagram



Sub Power Supply Block Diagram



DTV Module Block Diagram



SCHEMATIC DIAGRAMS / CBA AND TEST POINTS

Standard Notes

WARNING

Many electrical and mechanical parts in this chassis have special characteristics. These characteristics often pass unnoticed and the protection afforded by them cannot necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts that have these special safety characteristics are identified in this manual and its supplements; electrical components having such features are identified by the mark " ⚠ " in the schematic diagram and the parts list. Before replacing any of these components, read the parts list in this manual carefully. The use of substitute replacement parts that do not have the same safety characteristics as specified in the parts list may create shock, fire, or other hazards.

Notes:

1. Do not use the part number shown on these drawings for ordering. The correct part number is shown in the parts list, and may be slightly different or amended since these drawings were prepared.
2. All resistance values are indicated in ohms ($K=10^3$, $M=10^6$).
3. Resistor wattages are 1/4W or 1/6W unless otherwise specified.
4. All capacitance values are indicated in μF ($P=10^{-6}$ μF).
5. All voltages are DC voltages unless otherwise specified.
6. Electrical parts such as capacitors, connectors, diodes, IC's, transistors, resistors, switches, and fuses are identified by four digits. The first two digits are not shown for each component. In each block of the diagram, there is a note such as shown below to indicate these abbreviated two digits.

LIST OF CAUTION, NOTES, AND SYMBOLS USED IN THE SCHEMATIC DIAGRAMS ON THE FOLLOWING PAGES:

1. CAUTION:

FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE ONLY WITH THE SAME TYPE FUSE.

2. CAUTION:

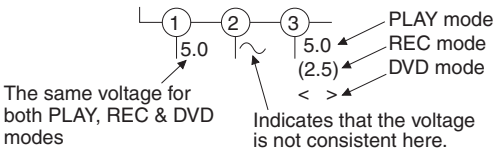
Fixed Voltage (or Auto voltage selectable) power supply circuit is used in this unit.
If Main Fuse (F1001) is blown, first check to see that all components in the power supply circuit are not defective before you connect the AC plug to the AC power supply. Otherwise it may cause some components in the power supply circuit to fail.

3. Note:

1. Do not use the part number shown on the drawings for ordering. The correct part number is shown in the parts list, and may be slightly different or amended since the drawings were prepared.
2. To maintain original function and reliability of repaired units, use only original replacement parts which are listed with their part numbers in the parts list section of the service manual.

4. Voltage indications for PLAY and REC modes on the schematics are as shown below:

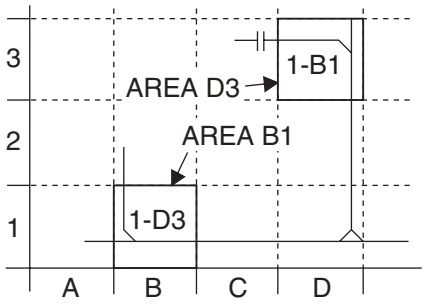
Unit: Volts



5. How to read converged lines

1-D3
- Distinction Area
- Line Number (1 to 3 digits)

Examples:
1. "1-D3" means that line number "1" goes to the line number "1" of the area "D3".
2. "1-B1" means that line number "1" goes to the line number "1" of the area "B1".



6. Test Point Information

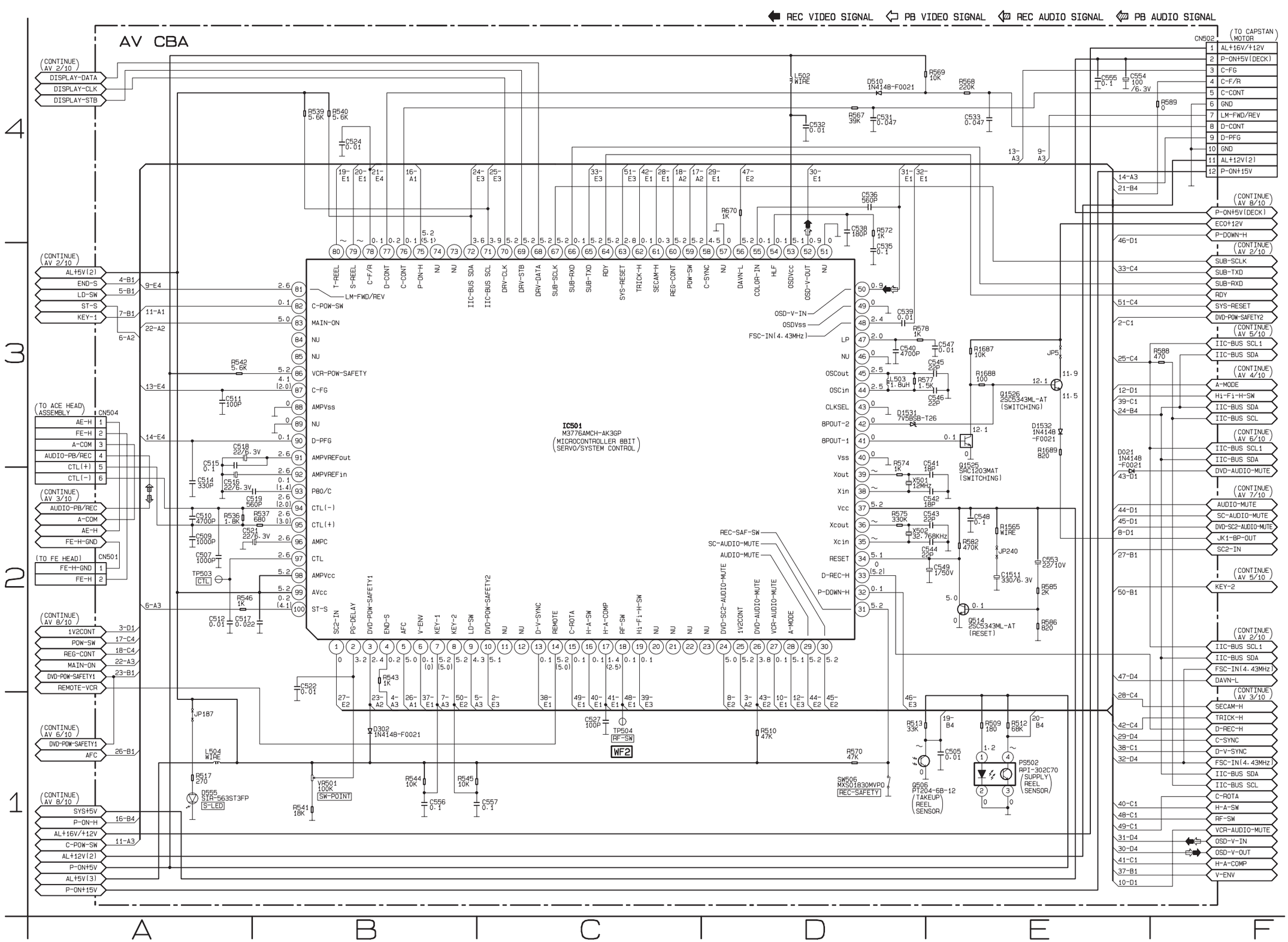
: Indicates a test point with a jumper wire across a hole in the BOARD.

: Used to indicate a test point with a component lead on foil side.

: Used to indicate a test point with no test pin.

: Used to indicate a test point with a test pin.

AV 1/10 Schematic Diagram < VCR Section >


REC VIDEO SIGNAL
PB VIDEO SIGNAL
REC AUDIO SIGNAL
PB AUDIO SIGNAL
AV CBA
IC501
M3776AMCH-AK3GP
(MICROCONTROLLER 8BIT)
(SERVO/SYSTEM CONTROL)
CN502
(TO CAPSTAN MOTOR)
1 AL+16V/+12V
2 P-ON+5V(DECK)
3 C-FG
4 C-F/R
5 C-CONT
6 GND
7 LM-FWD/REV
8 D-CONT
9 D-PFG
10 GND
11 AL+12V(2)
12 P-ON+15V
CN504
(TO ACE HEAD ASSEMBLY)
AE-H
FE-H
A-COM
AUDIO-PB/REC
CTL(+)
CTL(-)
CN501
(TO FE HEAD)
FE-H-GND
FE-H
T-REEL
S-REEL
C-F/R
D-CONT
C-CONT
P-ON-H
IIC-BUS SDA
IIC-BUS SCL
DRV-CLK
DRV-STB
DRV-DATA
SUB-SCLK
SUB-RXD
SUB-TXD
RDY
SYS-RESET
TRICK-H
SECAM-H
REG-CONT
PDW-SW
C-SYNC
DAVN-L
COLOR-IN
HLF
OSDVcc
OSD-V-OUT
LM-FWD/REV
C-POW-SW
MAIN-ON
VCR-POW-SAFETY
C-FG
AMPVss
D-PFG
AMPVREFout
AMPVREFin
PBO/C
CTL(-)
CTL(+)
AMPC
CTL
AMPVcc
AVcc
ST-S
OSD-V-IN
OSDVss
FSC-IN(4.43MHz)
LP
OSCout
OSCin
CLKSEL
8POUT-2
8POUT-1
Vss
Xout
Xin
Vcc
Xcout
Xcin
RESET
D-REC-H
P-DOWN-H
SC2-IN
PG-DELAY
DVD-POW-SAFETY1
END-S
AFC
V-ENV
KEY-1
KEY-2
LD-SW
DVD-POW-SAFETY2
D-V-SYNC
REMOTE
C-ROTA
H-A-SW
H-A-COMP
RF-SW
Hi-Fi-H-SW
DVD-SC2-AUDIO-MUTE
1V2CONT
DVD-AUDIO-MUTE
VCR-AUDIO-MUTE
A-MODE
REC-SAF-SW
SC-AUDIO-MUTE
AUDIO-MUTE
CONTINUE AV 2/10
DISPLAY-DATA
DISPLAY-CLK
DISPLAY-STB
AL+5V(2)
END-S
LD-SW
ST-S
KEY-1
CONTINUE AV 3/10
CONTINUE AV 8/10
1V2CONT
POW-SW
REG-CONT
MAIN-ON
DVD-POW-SAFETY1
REMOTE-VCR
CONTINUE AV 6/10
DVD-POW-SAFETY1
AFC
CONTINUE AV 8/10
SYS+5V
P-ON-H
AL+16V/+12V
C-POW-SW
AL+12V(2)
P-ON+5V
AL+5V(3)
P-ON+15V
CONTINUE AV 8/10
P-ON+5V(DECK)
ECO+12V
P-DOWN-H
CONTINUE AV 2/10
SUB-SCLK
SUB-TXD
SUB-RXD
RDY
SYS-RESET
DVD-POW-SAFETY2
CONTINUE AV 5/10
IIC-BUS SCL1
IIC-BUS SDA
CONTINUE AV 4/10
A-MODE
Hi-Fi-H-SW
IIC-BUS SDA
IIC-BUS SCL
CONTINUE AV 6/10
IIC-BUS SCL1
IIC-BUS SDA
DVD-AUDIO-MUTE
CONTINUE AV 7/10
AUDIO-MUTE
SC-AUDIO-MUTE
DVD-SC2-AUDIO-MUTE
JK1-BP-OUT
SC2-IN
CONTINUE AV 5/10
KEY-2
CONTINUE AV 2/10
IIC-BUS SCL1
IIC-BUS SDA
FSC-IN(4.43MHz)
DAVN-L
CONTINUE AV 3/10
SECAM-H
TRICK-H
D-REC-H
C-SYNC
D-V-SYNC
FSC-IN(4.43MHz)
IIC-BUS SDA
IIC-BUS SCL
C-ROTA
H-A-SW
RF-SW
VCR-AUDIO-MUTE
OSD-V-IN
OSD-V-OUT
H-A-COMP
V-ENV
L502 WIRE
D510 1N414B-F0021
R569 10K
R568 220K
R567 39K
C531 0.047
C532 0.01
C533 0.047
C555 0.1
C554 100 /6.3V
R589 0
C536 560P
R670 1K
C538 180P
R572 1K
C535 0.1
C539 0.01
R578 1K
C547 0.01
C540 4700P
C545 22P
L503 1.8uH
R577 1.5K
C546 22P
D1531 7V5B5B-T26
Q1525 SRC1203MAT (SWITCHING)
X501 12MHz
C542 18P
R574 1K
C541 18P
R575 330K
C543 22P
X502 32.768KHz
C544 22P
C549 1/50V
C548 0.1
R582 470K
R1565 WIRE
JP240
C1511 330/6.3V
C553 22/10V
R585 2K
Q514 2SC5343ML-AT (RESET)
R586 820
R1687 10K
R1688 100
Q1526 2SC5343ML-AT (SWITCHING)
JP5
D1532 1N4148 -F0021
R1689 820
D021 1N4148 -F0021
R588 470
R539 5.6K
R540 5.6K
C524 0.01
R542 5.6K
C511 100P
C518 22/6.3V
C515 0.1
C514 330P
C516 22/6.3V
C519 560P
C510 4700P
R536 1.8K
R537 680
C509 1000P
C521 22/6.3V
C507 1000P
TP503 CTL
R546 1K
C512 0.01
C517 0.022
C522 0.01
R543 1K
JP187
D302 IN4148-F0021
L504 WIRE
R517 270
D555 SIR-563ST3FP (S-LED)
VR501 100K SW-POINT
R541 18K
R544 10K
R545 10K
C556 0.1
C557 0.1
C527 100P
TP504 RF-SW
WF2
R510 47K
R570 47K
SW506 MXS01830MVP0 (REC-SAFETY)
R513 33K
C505 0.01
Q506 PT204-6B-12 (TAKEUP REEL SENSOR)
R509 180
R512 68K
PS502 RPI-302C70 (SUPPLY REEL SENSOR)
R557 10K
C558 0.1
R558 10K
C559 0.1
R559 10K
C560 0.1
R560 10K
C561 0.1
R561 10K
C562 0.1
R562 10K
C563 0.1
R563 10K
C564 0.1
R564 10K
C565 0.1
R565 10K
C566 0.1
R566 10K
C567 0.1

AV 2/10, Power SW & Sensor Schematic Diagram < VCR Section >

FL601 MATRIX CHART

	7G	6G	5G	4G	3G	2G	1G
P1	a	a	a	a	a	a	CD
P2	b	b	b	b	b	b	VCR
P3	f	f	f	f	f	f	DB
P4	g	g	g	g	g	g	HDD
P5	c	c	c	c	c	c	DVD
P6	e	e	e	e	e	e	▶
P7	d	d	d	d	d	d	▮
P8	S1	:	T	:	⏻	C	●
P9	PM	DTV	BS	CS	DR	●	▮

AV CBA

(CONTINUE) AV 1/10: SUB-SCLK, SUB-TXD, SUB-RXD, RDY, SYS-RESET, DVD-PON-SAFETY2

FL601 7-BT-310N (VFD)

IC612 PT6315(L) (VFD DRIVER)

IC700 LC74793JM-TLM-E (VPS)

Q519 SRC1203MAT (SWITCHING)

Q518 SRC1203MAT (SWITCHING)

Q517 2SC5343SFG (INVERTER)

Q516 2SC5343SFG (INVERTER)

(CONTINUE) AV 6/10: SUB-TXD, SUB-RXD, SUB-SCLK, SYS-RESET, RDY

(CONTINUE) AV 8/10: P-ON+5V

(CONTINUE) AV 5/10: VPS-OUT

(CONTINUE) AV 1/10: IIC-BUS SCL1, IIC-BUS SDA, FSC-IN(4.43MHZ), DAVN-L

(CONTINUE) AV 8/10: F2, F1, -FL

(CONTINUE) AV 8/10: ECO+5V

(CONTINUE) AV 5/10: VCR-LED, DVD-LED

(CONTINUE) AV 1/10: DISPLAY-DATA, DISPLAY-CLK, DISPLAY-STB

TP502 END-S

Q503 PT204-6B-12 (END-S) — SENSOR CBA

Q504 PT204-6B-12 (ST-S) — SENSOR CBA

SW507 SSS-53MD-1 LD-SW

(CONTINUE) AV 1/10: AL+5V(2), END-S, LD-SW, ST-S, KEY-1

VCR: JP278 S-INH; SW1502 CH-UP; SW1501 CH-DOWN; SW525 REC; SW524 PLAY; SW523 FF; SW522 REW; SW521 STOP/EJECT

D1602 LTL-4222 POWER

SW675 POWER

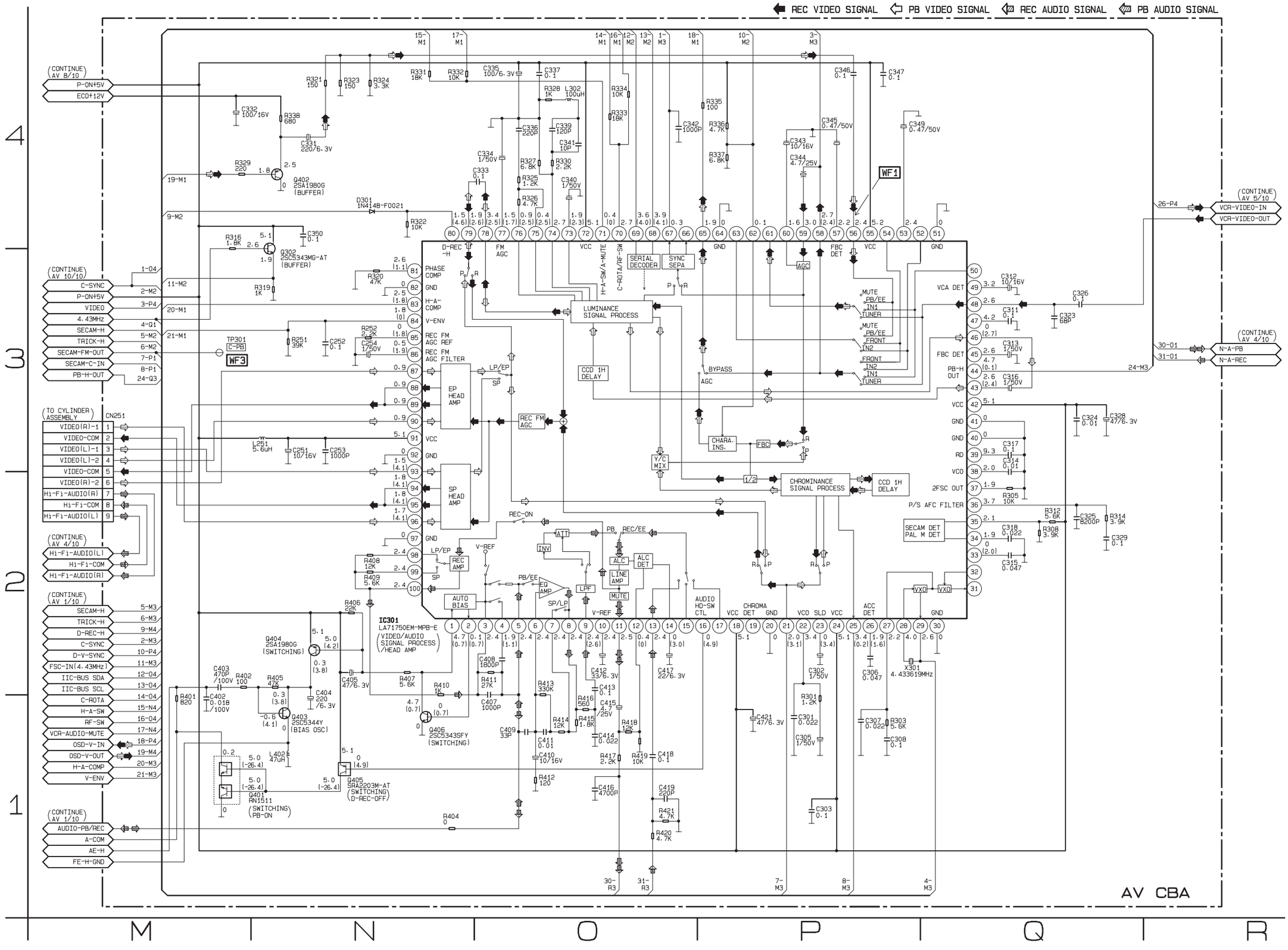
CN1505 / CN1601

1	ECO+5V	1	
2	POWER-SW	2	
3	POWER-LED	3	
4	GND	4	

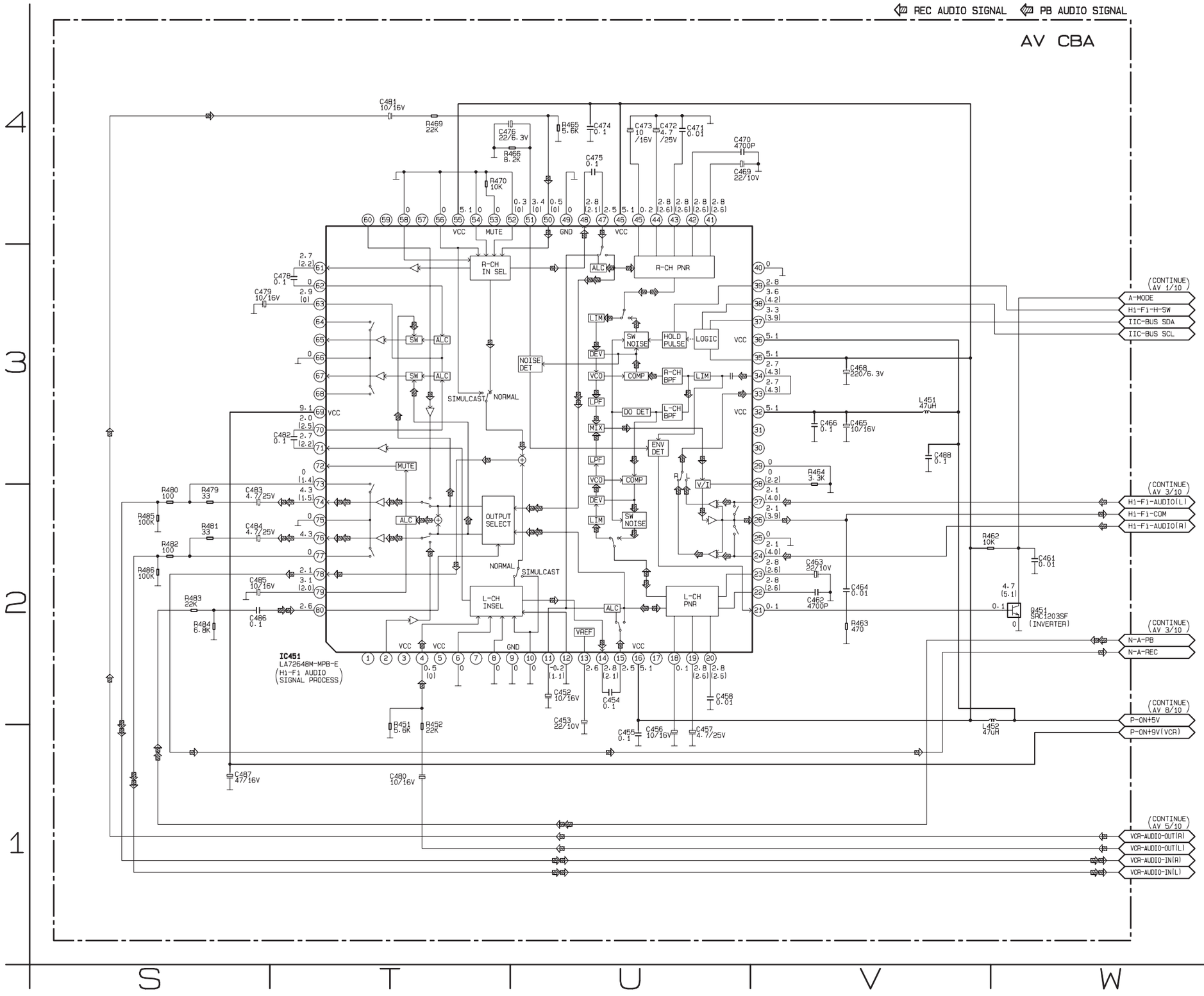
POWER SW CBA

UNLESS OTHERWISE SPECIFIED:
SWITCHES ARE SKQSAF001A.

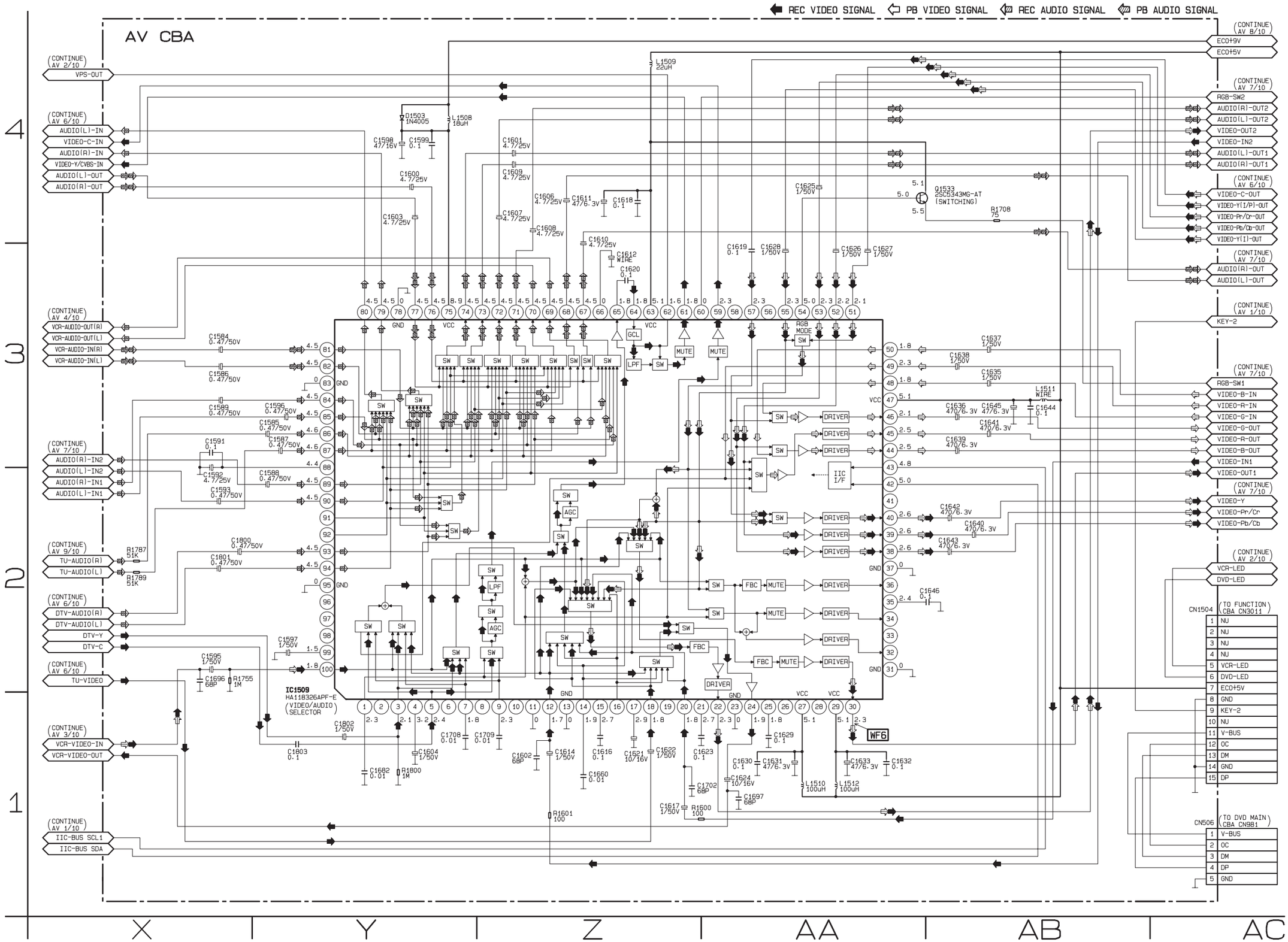
AV 3/10 Schematic Diagram < VCR Section >



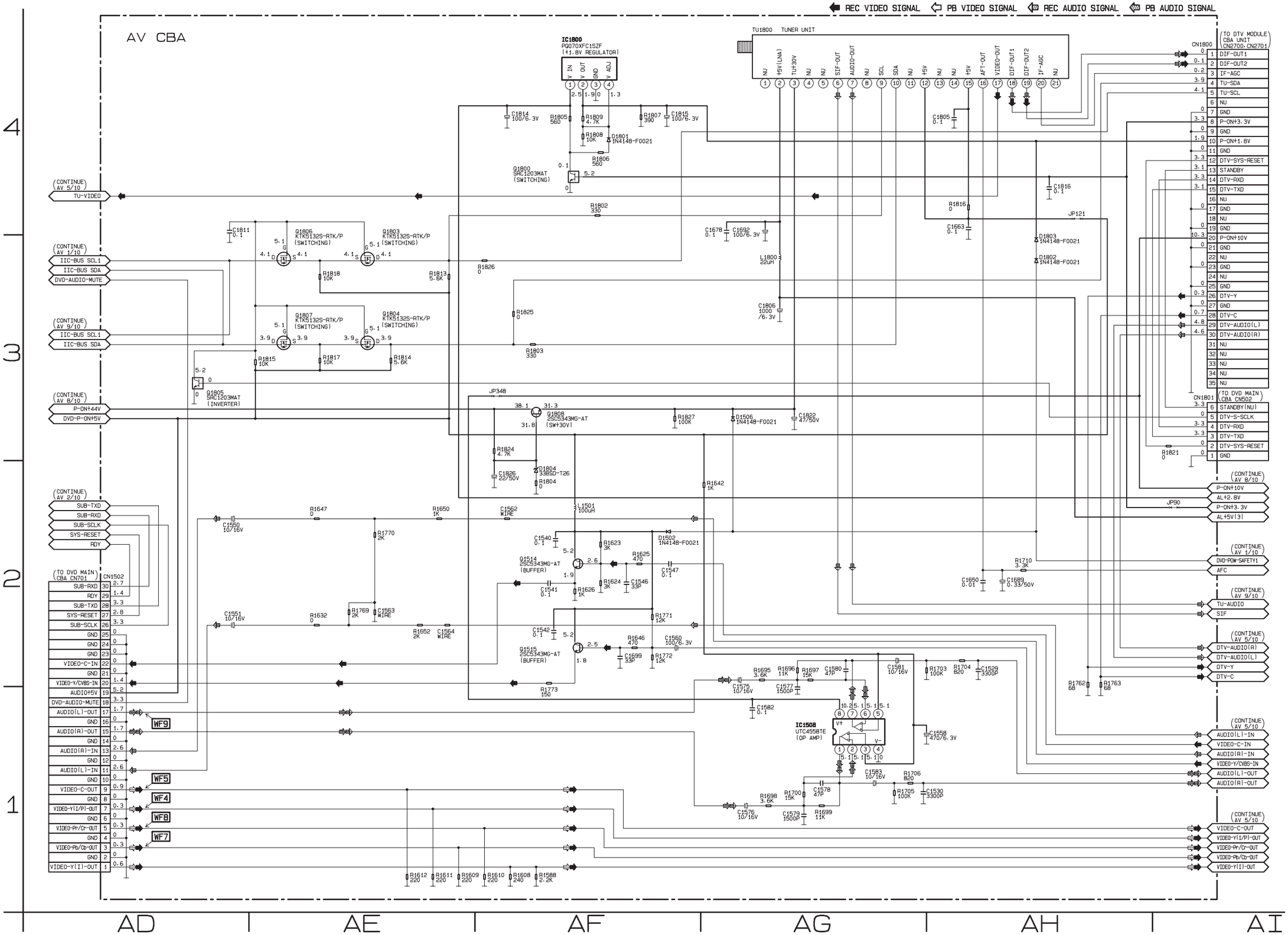
AV 4/10 Schematic Diagram < VCR Section >



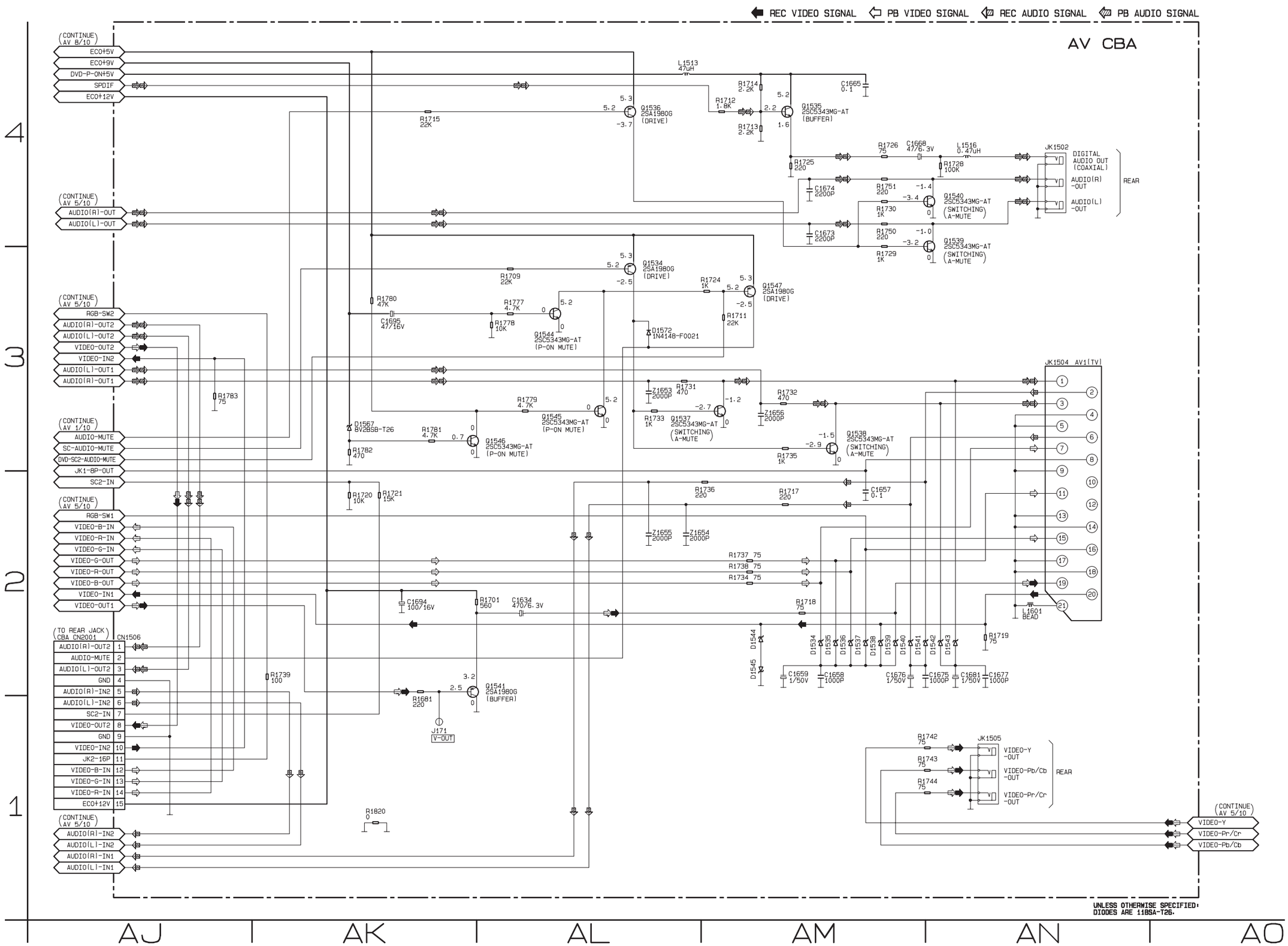
AV 5/10 Schematic Diagram < VCR Section >



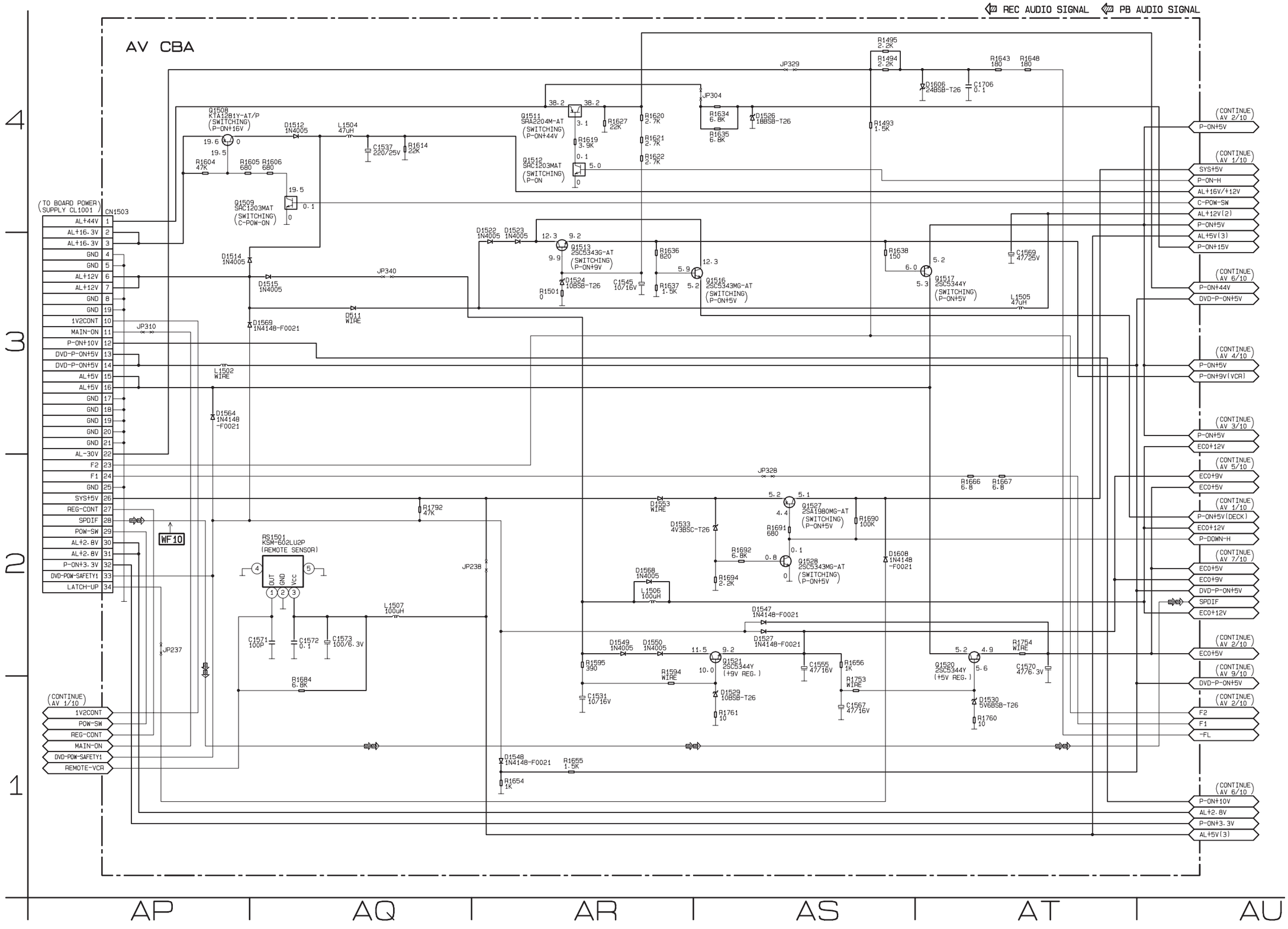
AV 6/10 Schematic Diagram < VCR Section >



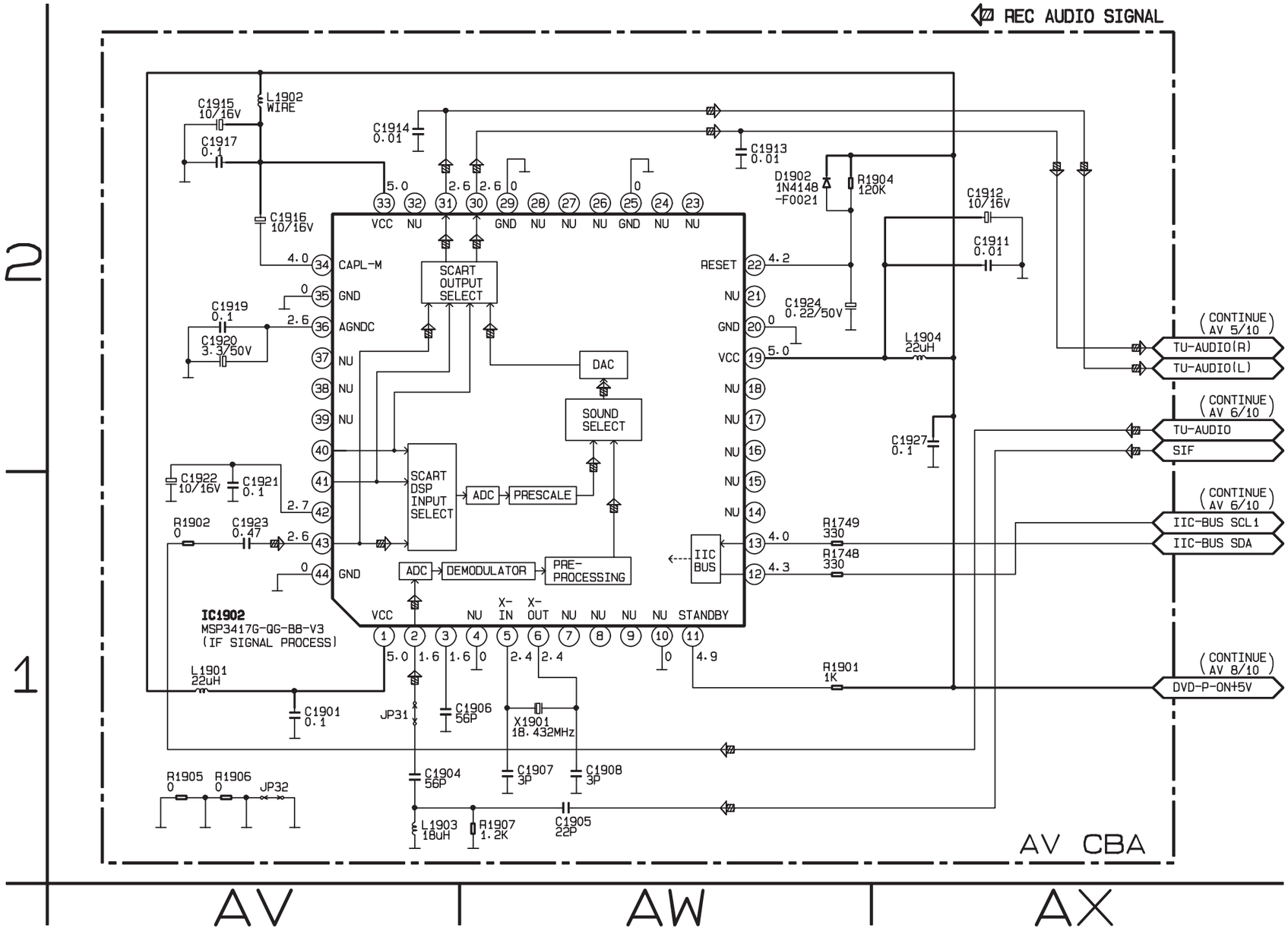
AV 7/10 Schematic Diagram < VCR Section >



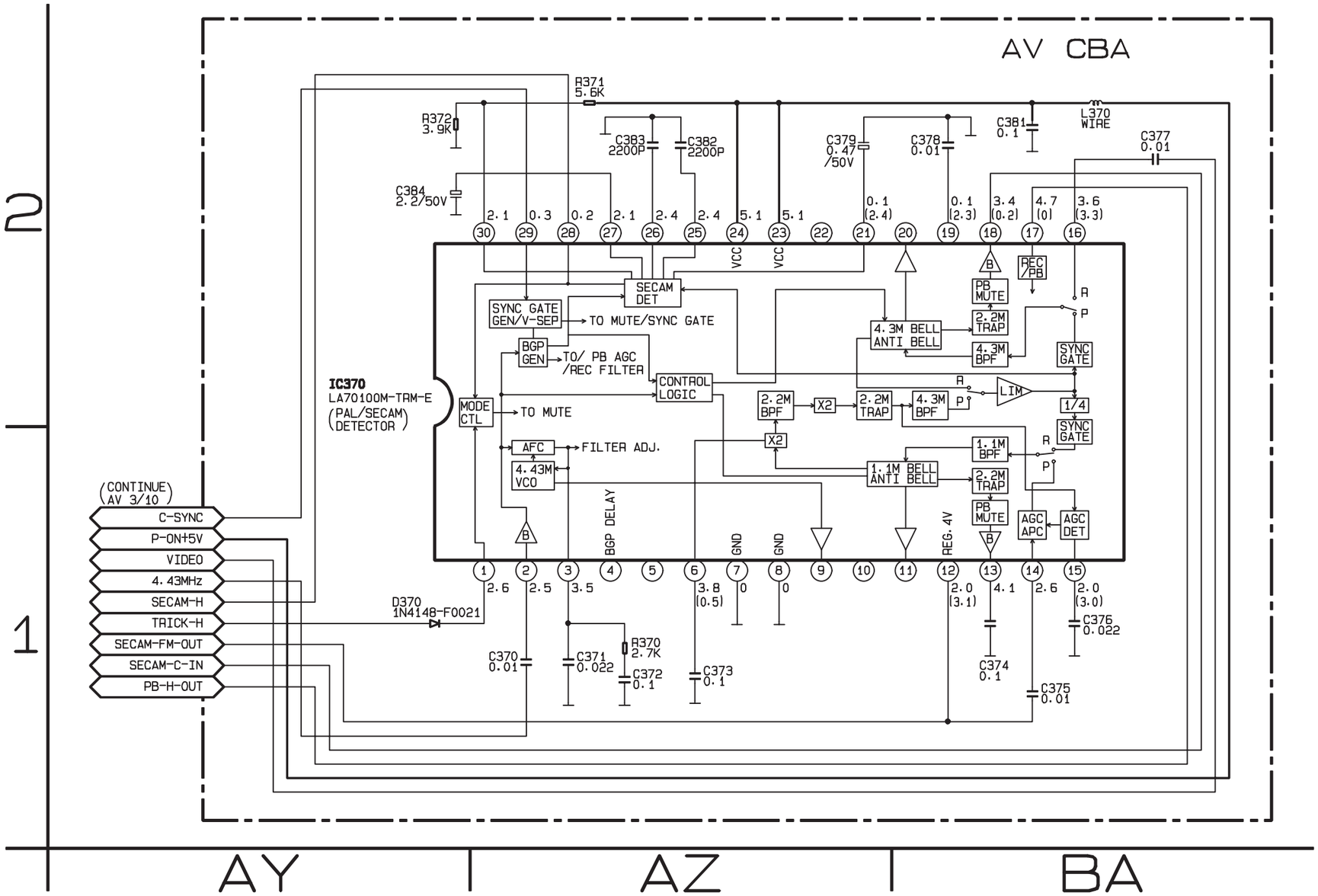
AV 8/10 Schematic Diagram < VCR Section >



AV 9/10 Schematic Diagram < VCR Section >



AV 10/10 Schematic Diagram < VCR Section >

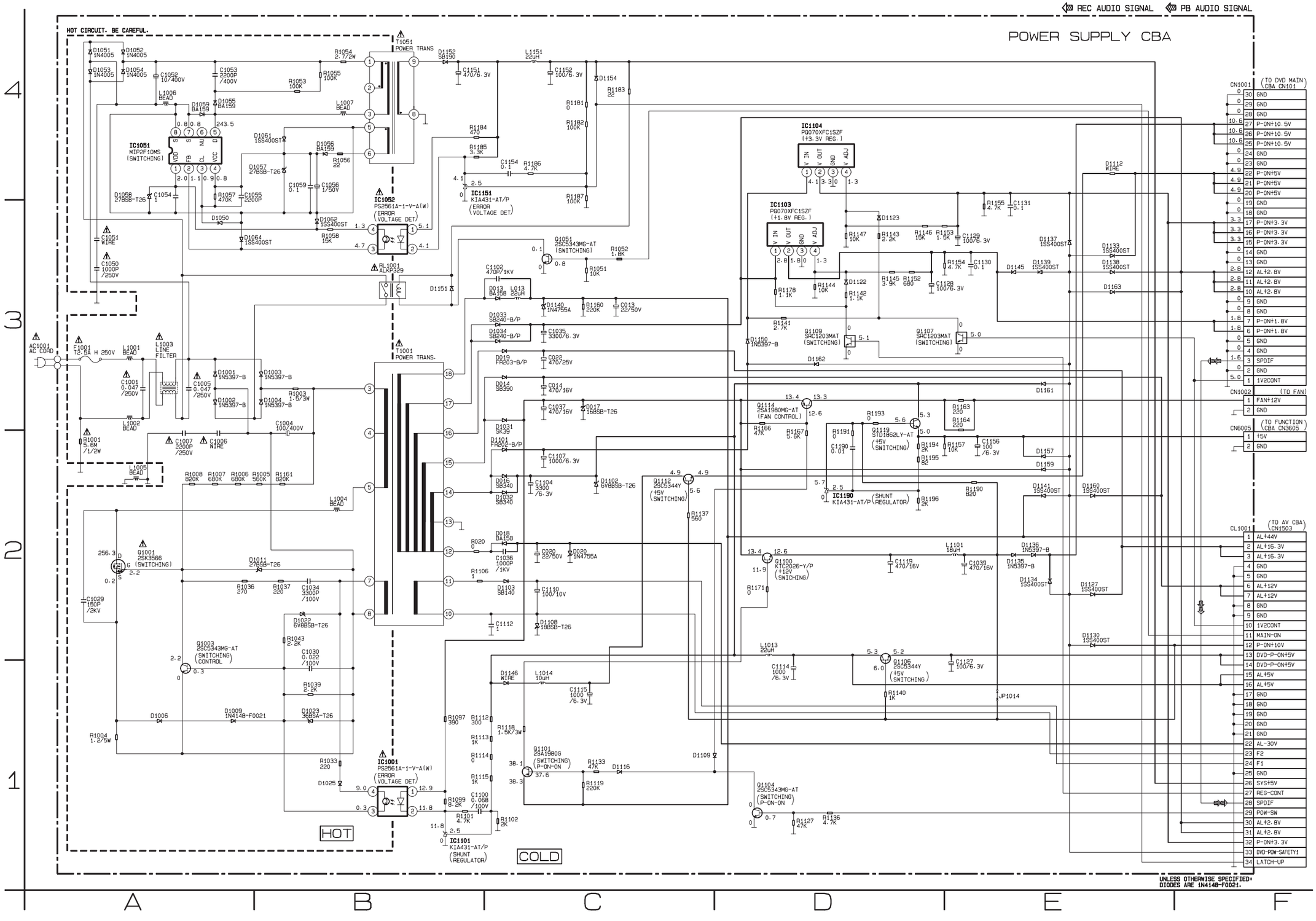


Power Supply Schematic Diagram < VCR Section >

CAUTION !
Fixed voltage (or Auto voltage selectable) power supply circuit is used in this unit.
If Main Fuse (F1001) is blown , check to see that all components in the power supply circuit are not defective before you connect the AC plug to the AC power supply.
Otherwise it may cause some components in the power supply circuit to fail.

CAUTION !
For continued protection against fire hazard, replace only with the same type fuse.

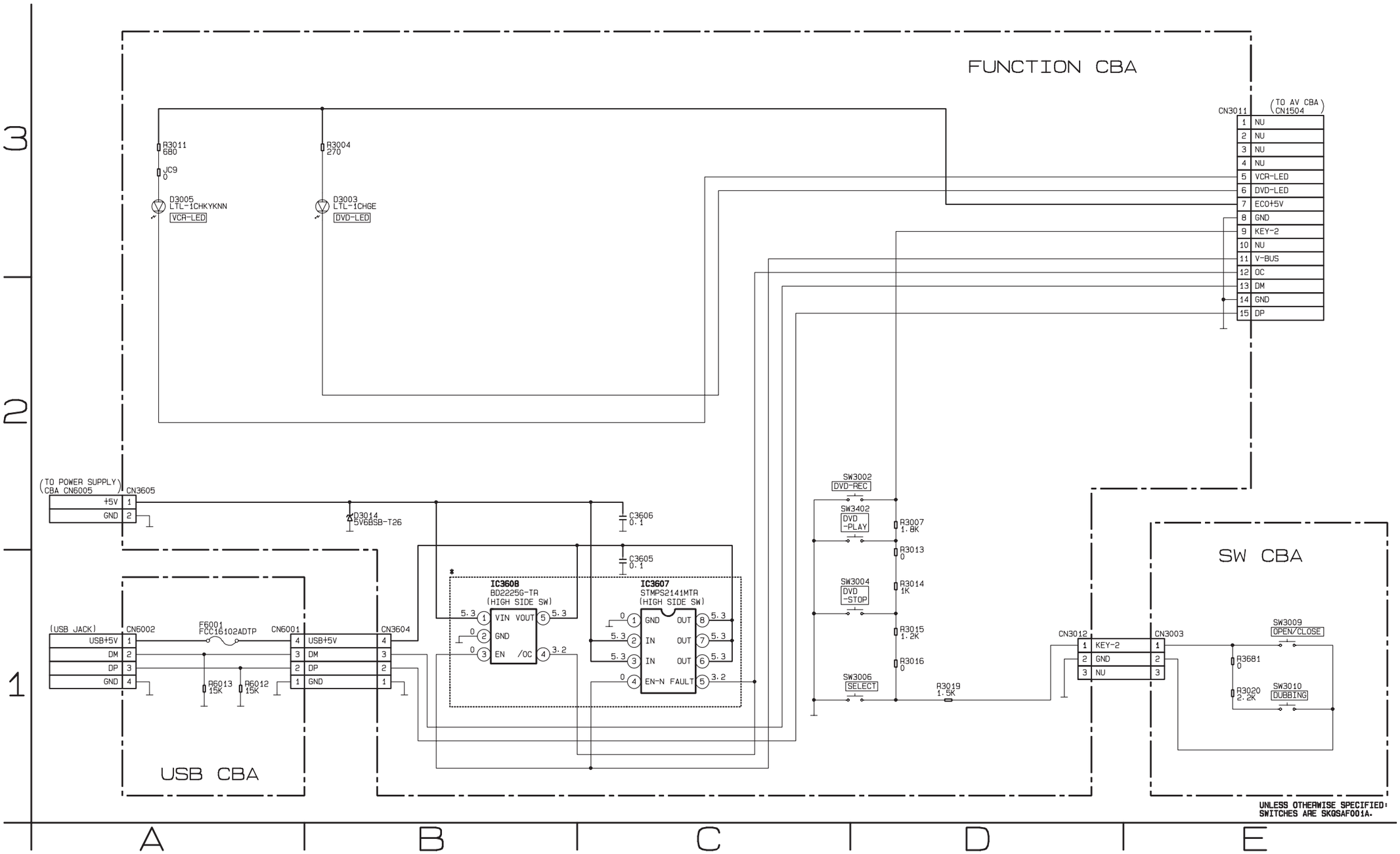
NOTE:
The voltage for parts in hot circuit is measured using hot GND as a common terminal.



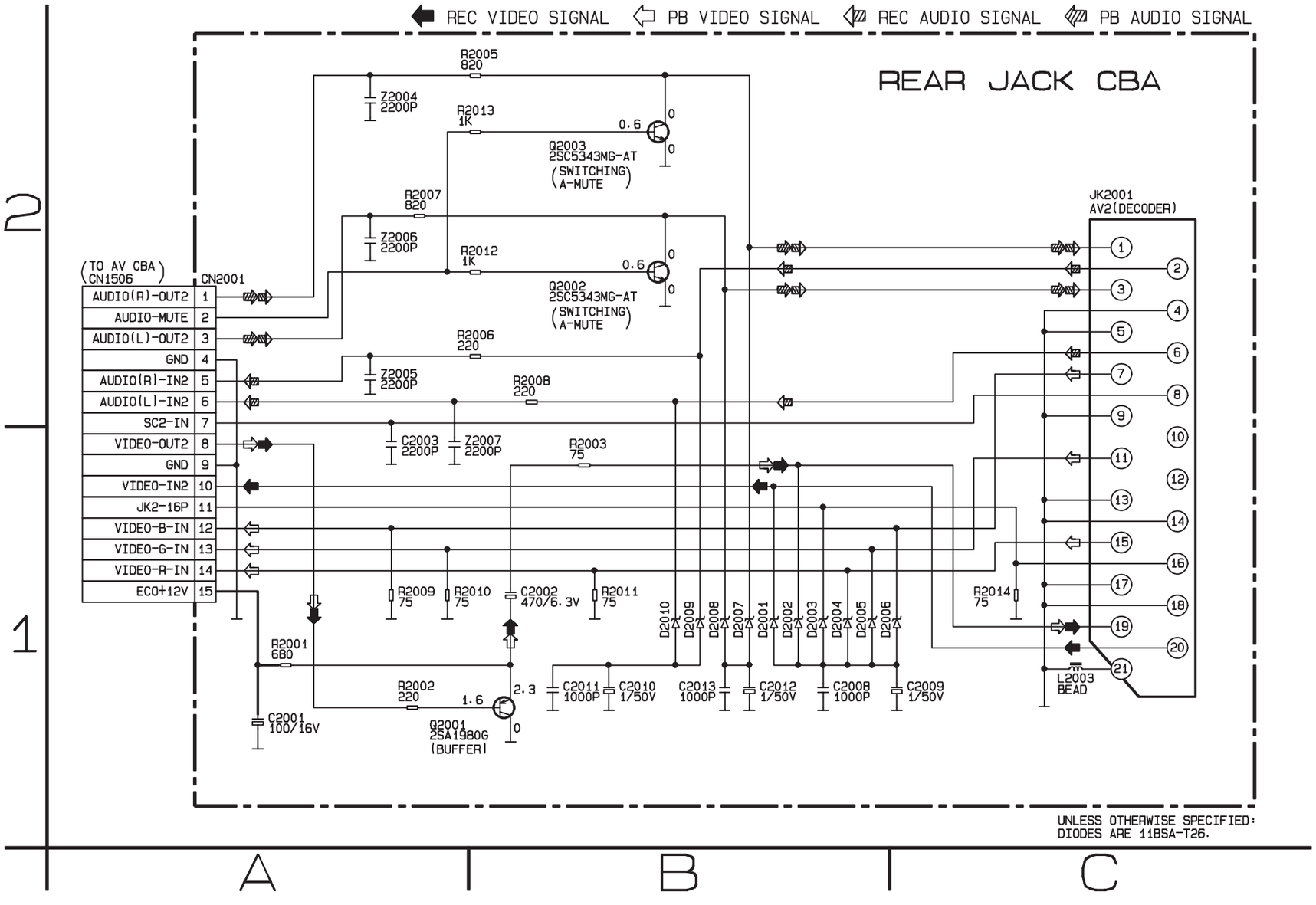
Function, SW & USB Schematic Diagram < VCR Section >

CAUTION !
For continued protection against fire hazard,
replace only with the same type fuse(F6001).

*** NOTE:**
Either IC3607 or IC3608 is used for FUNCTION CBA.



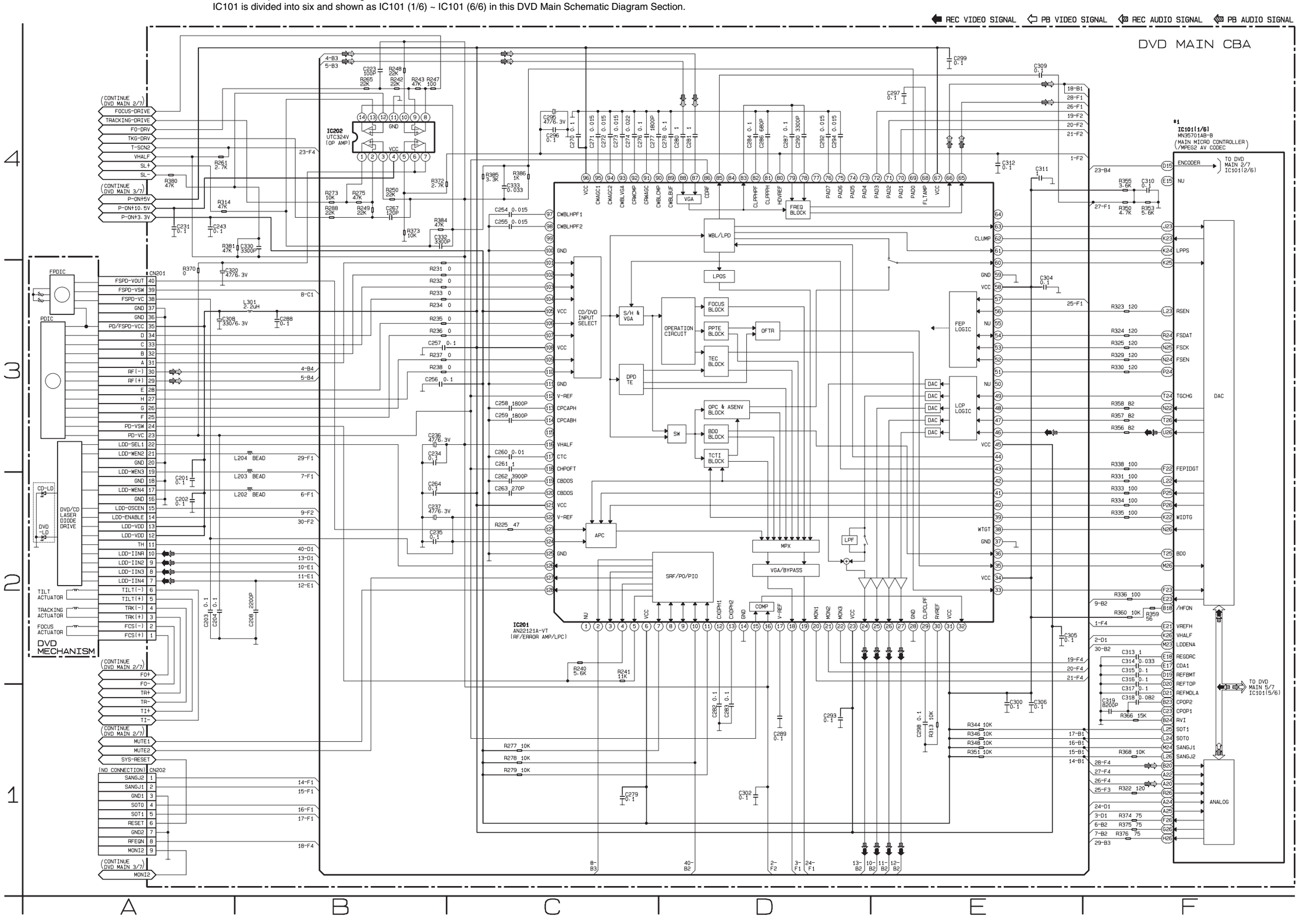
Rear Jack Schematic Diagram < VCR Section >



DVD Main 1/7 Schematic Diagram < DVD Section >

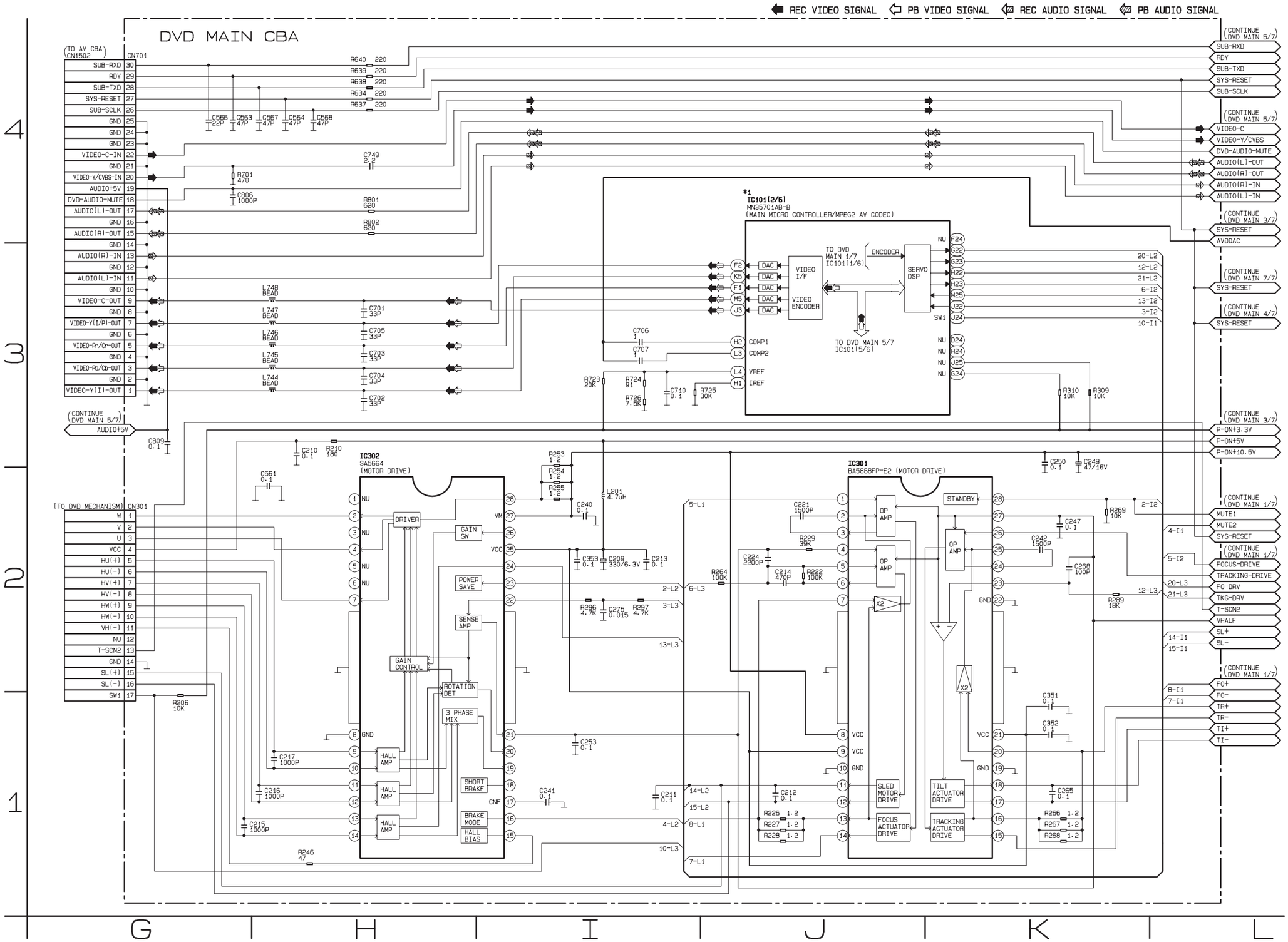
∗1 **NOTE:**

The order of pins shown in this diagram is different from that of actual IC101.
IC101 is divided into six and shown as IC101 (1/6) ~ IC101 (6/6) in this DVD Main Schematic Diagram Section.



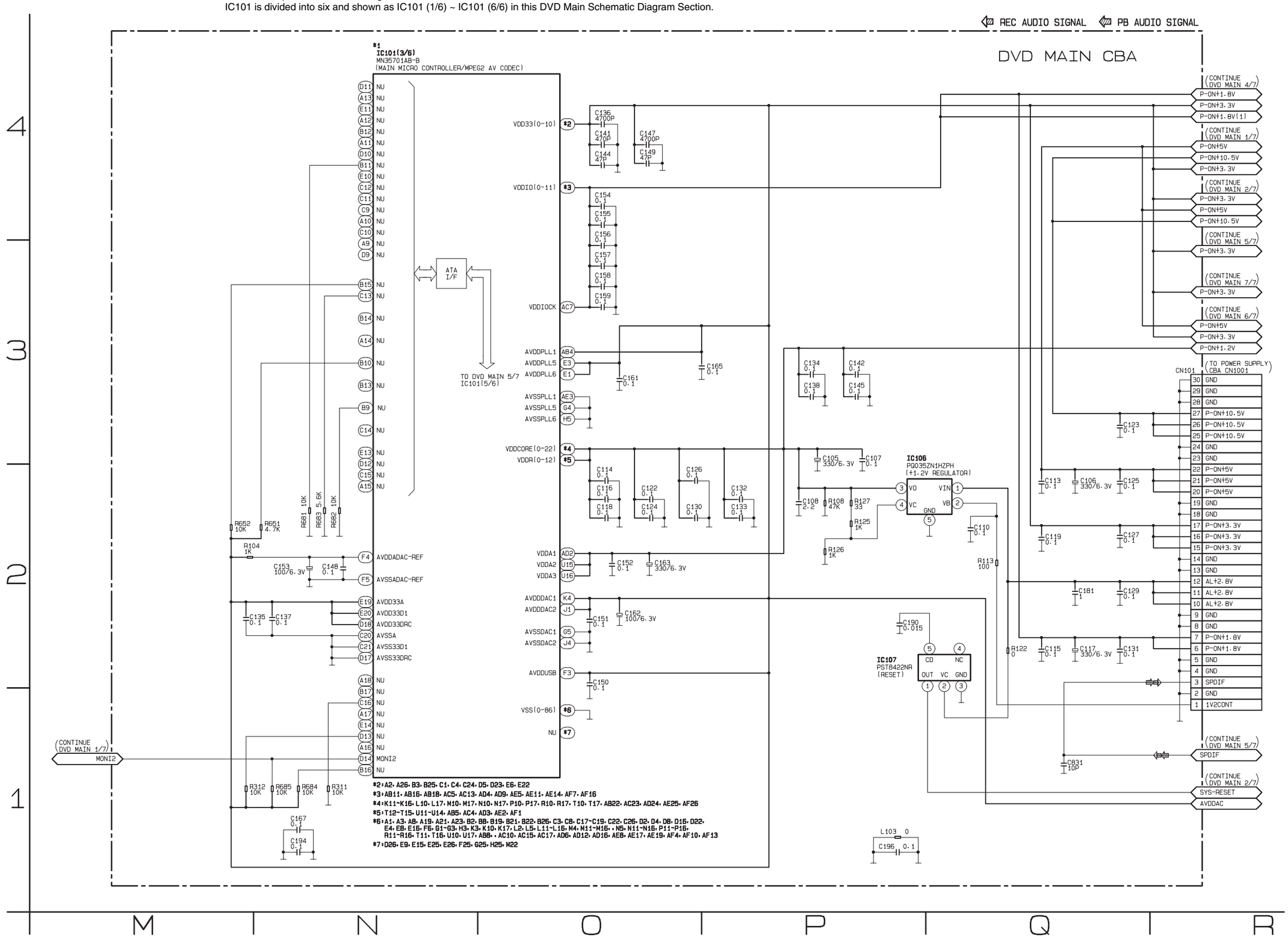
DVD Main 2/7 Schematic Diagram < DVD Section >

∗1 **NOTE:**
The order of pins shown in this diagram is different from that of actual IC101.
IC101 is divided into six and shown as IC101 (1/6) ~ IC101 (6/6) in this DVD Main Schematic Diagram Section.



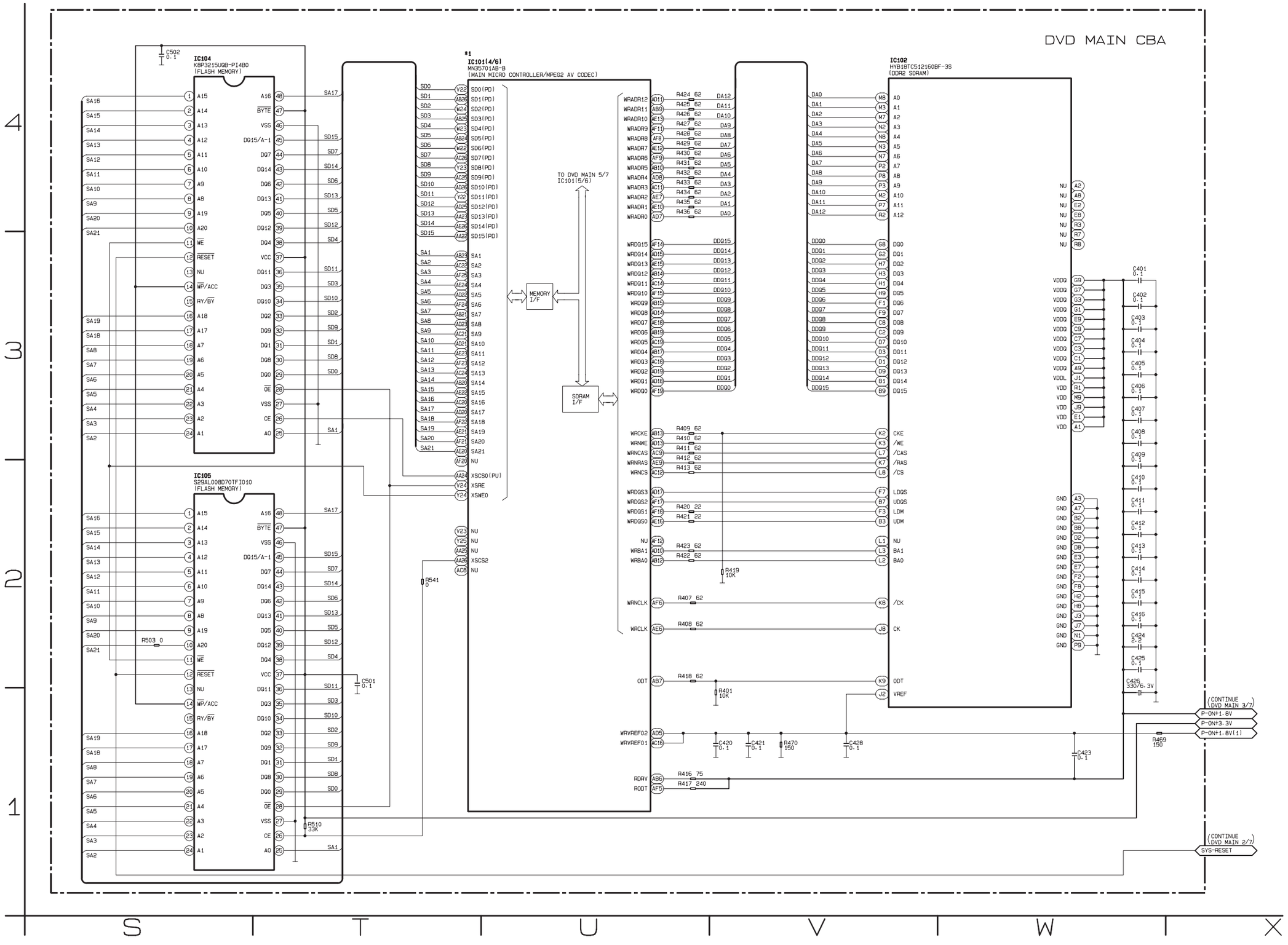
DVD Main 3/7 Schematic Diagram < DVD Section >

∗1 **NOTE:**
The order of pins shown in this diagram is different from that of actual IC101.
IC101 is divided into six and shown as IC101 (1/6) ~ IC101 (6/6) in this DVD Main Schematic Diagram Section.



DVD Main 4/7 Schematic Diagram < DVD Section >

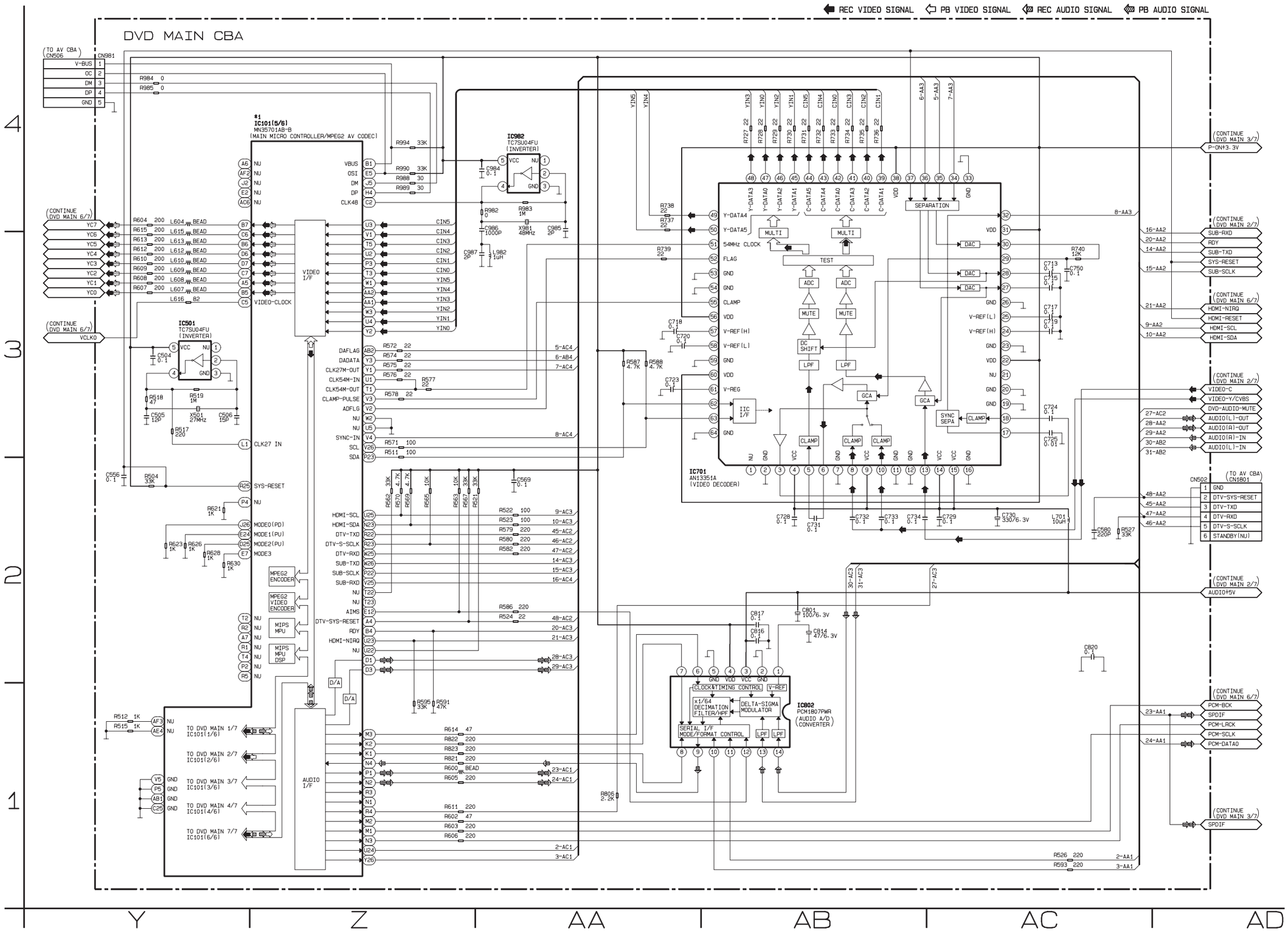
∗1 **NOTE:**
The order of pins shown in this diagram is different from that of actual IC101.
IC101 is divided into six and shown as IC101 (1/6) ~ IC101 (6/6) in this DVD Main Schematic Diagram Section.



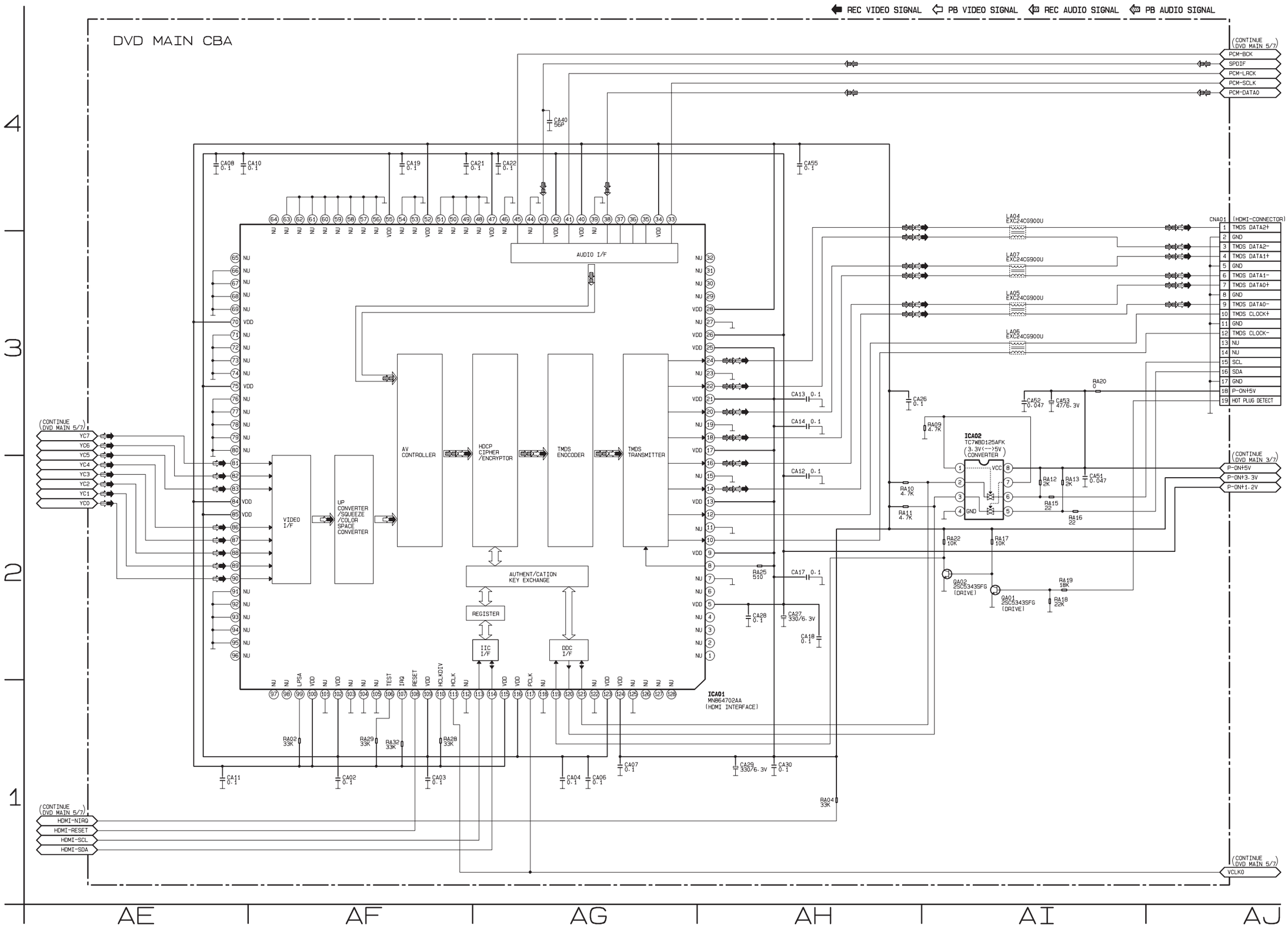
DVD Main 5/7 Schematic Diagram < DVD Section >

∗1 **NOTE:**

The order of pins shown in this diagram is different from that of actual IC101.
IC101 is divided into six and shown as IC101 (1/6) ~ IC101 (6/6) in this DVD Main Schematic Diagram Section.

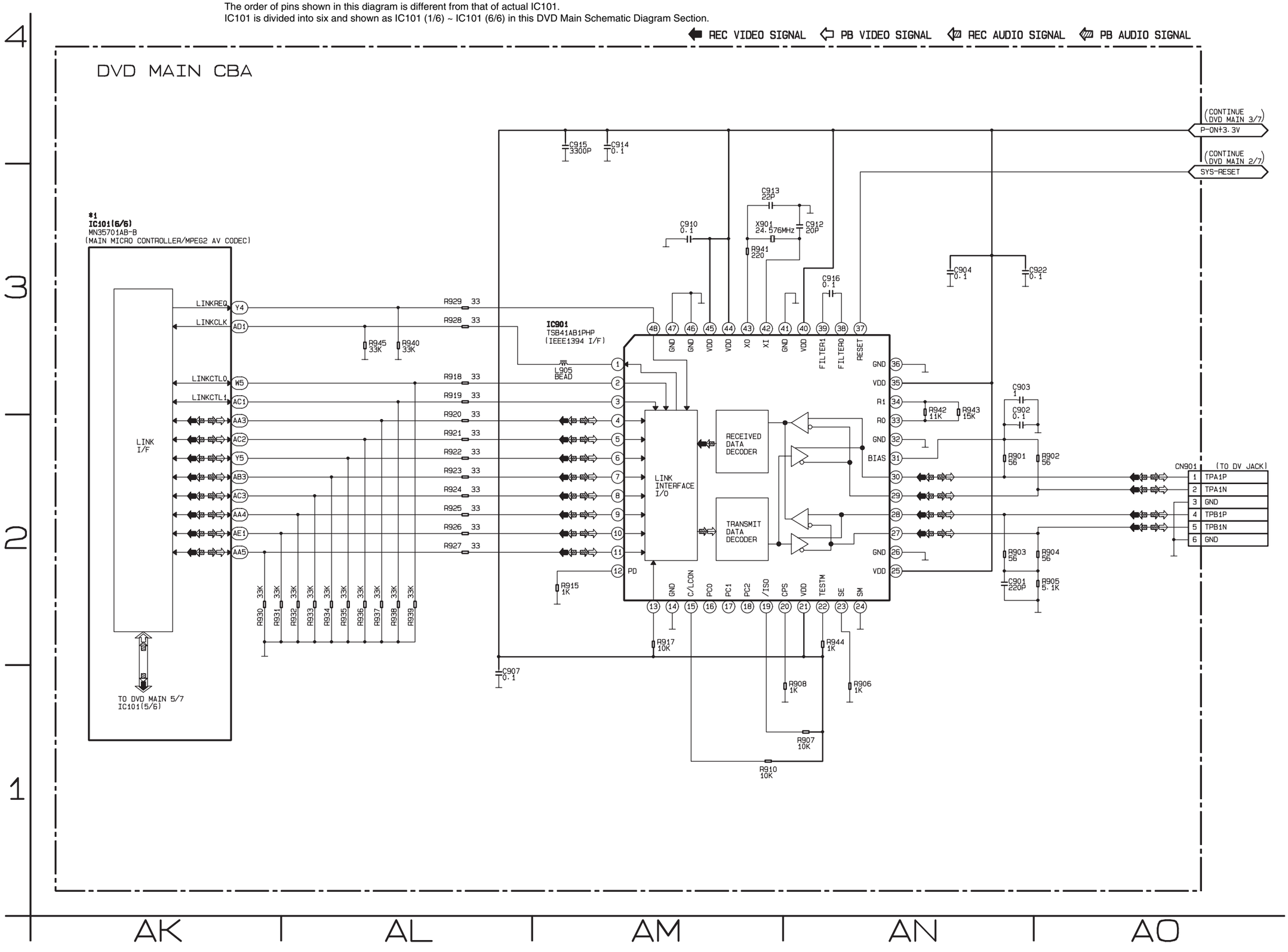


DVD Main 6/7 Schematic Diagram < DVD Section >

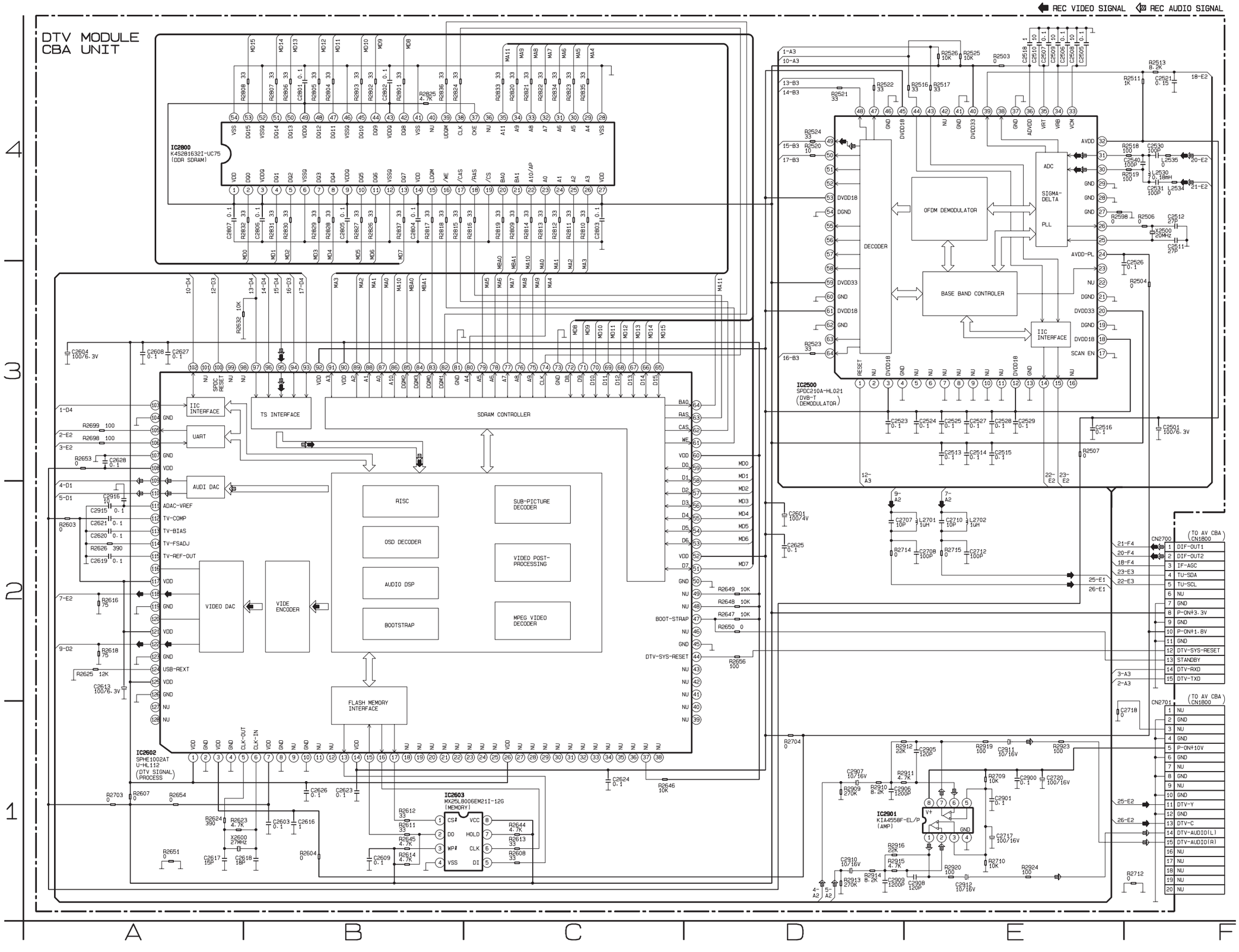


DVD Main 7/7 Schematic Diagram < DVD Section >

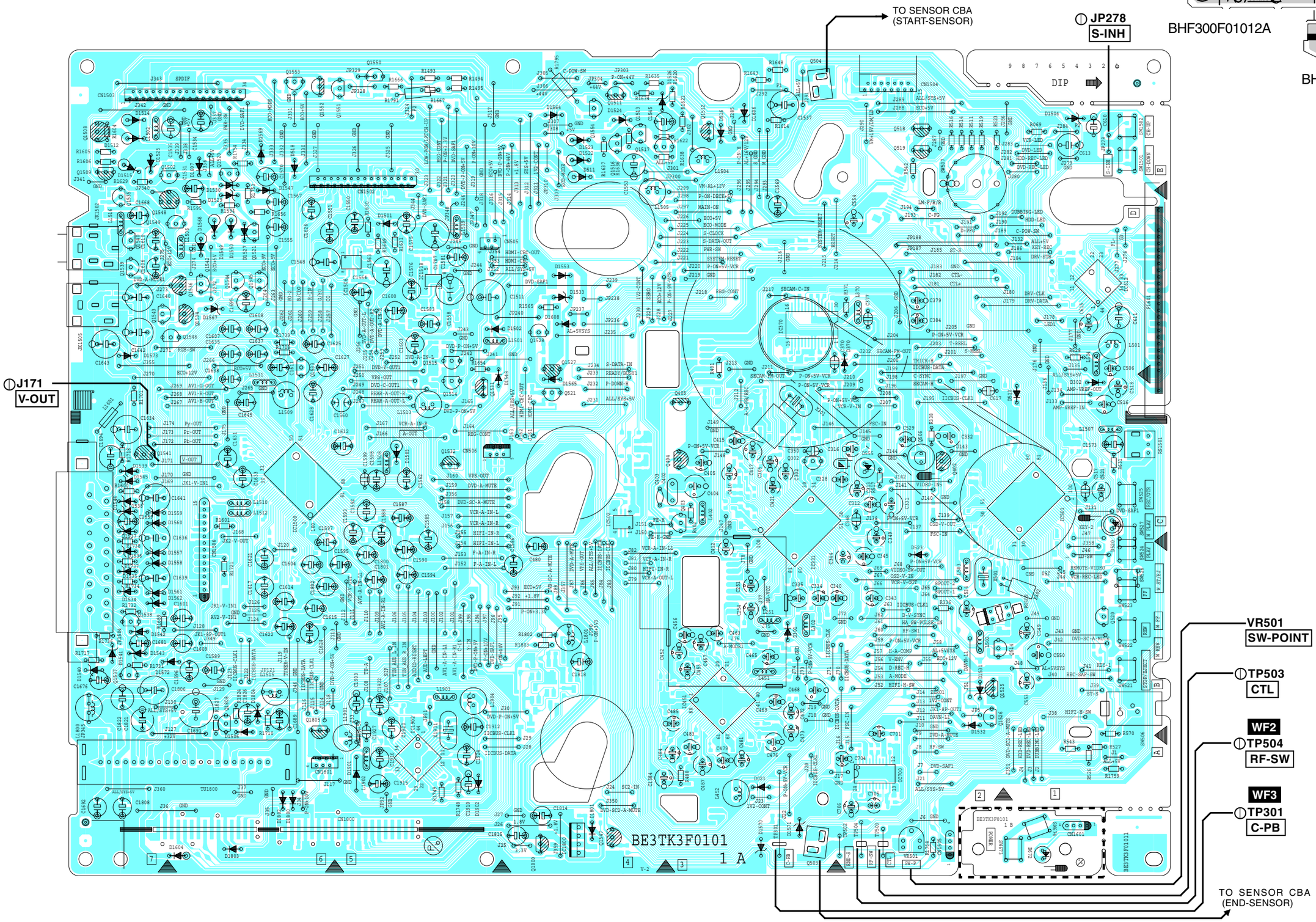
∗1 **NOTE:**
The order of pins shown in this diagram is different from that of actual IC101.
IC101 is divided into six and shown as IC101 (1/6) ~ IC101 (6/6) in this DVD Main Schematic Diagram Section.



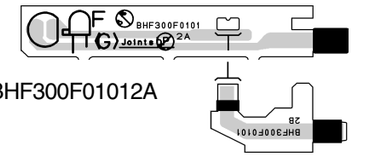
DTV Module Schematic Diagram < DVD Section >



AV CBA Top View



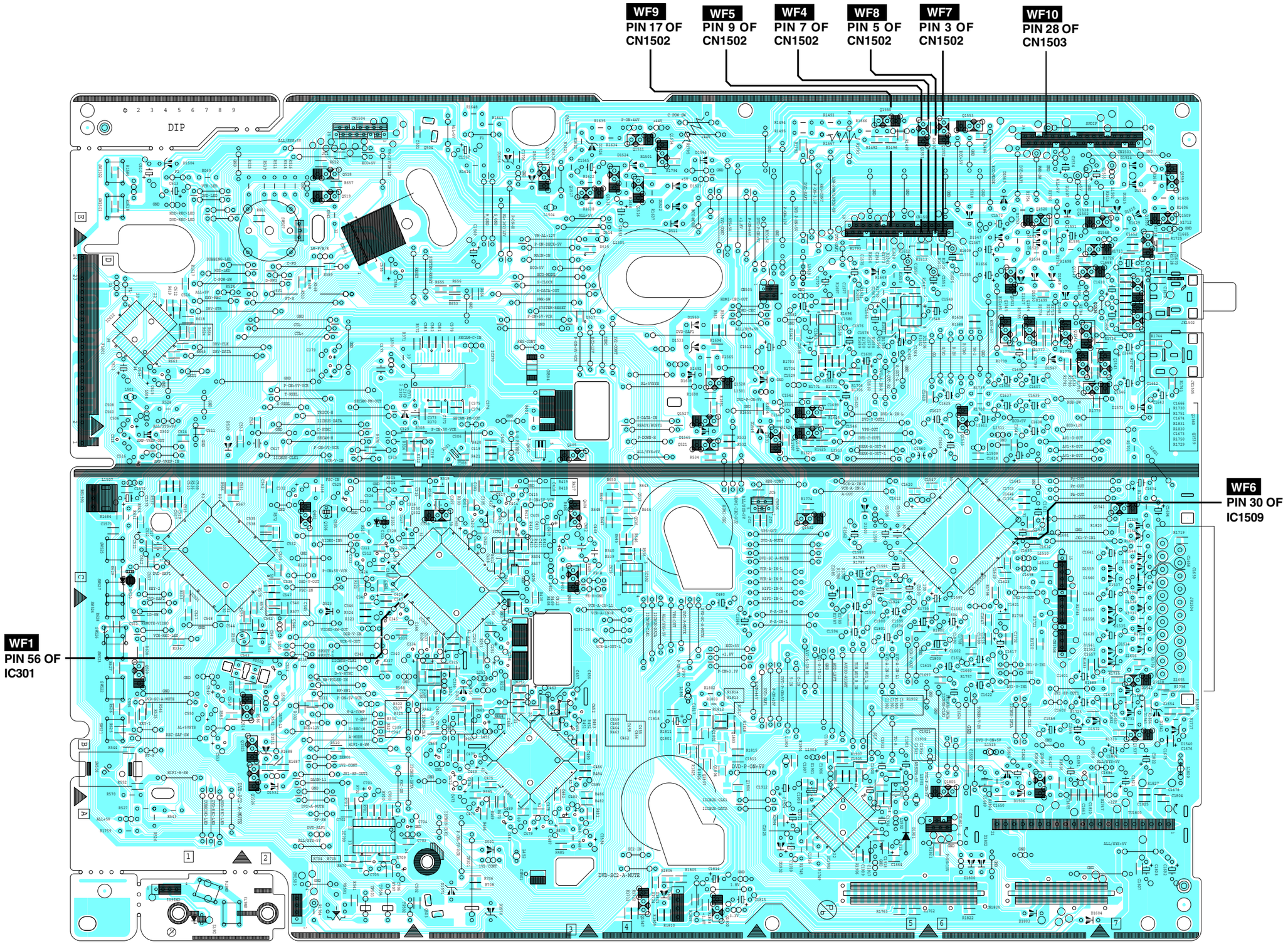
Sensor CBA Top View



BHF300F01012A

BHF300F01012B

AV CBA Bottom View



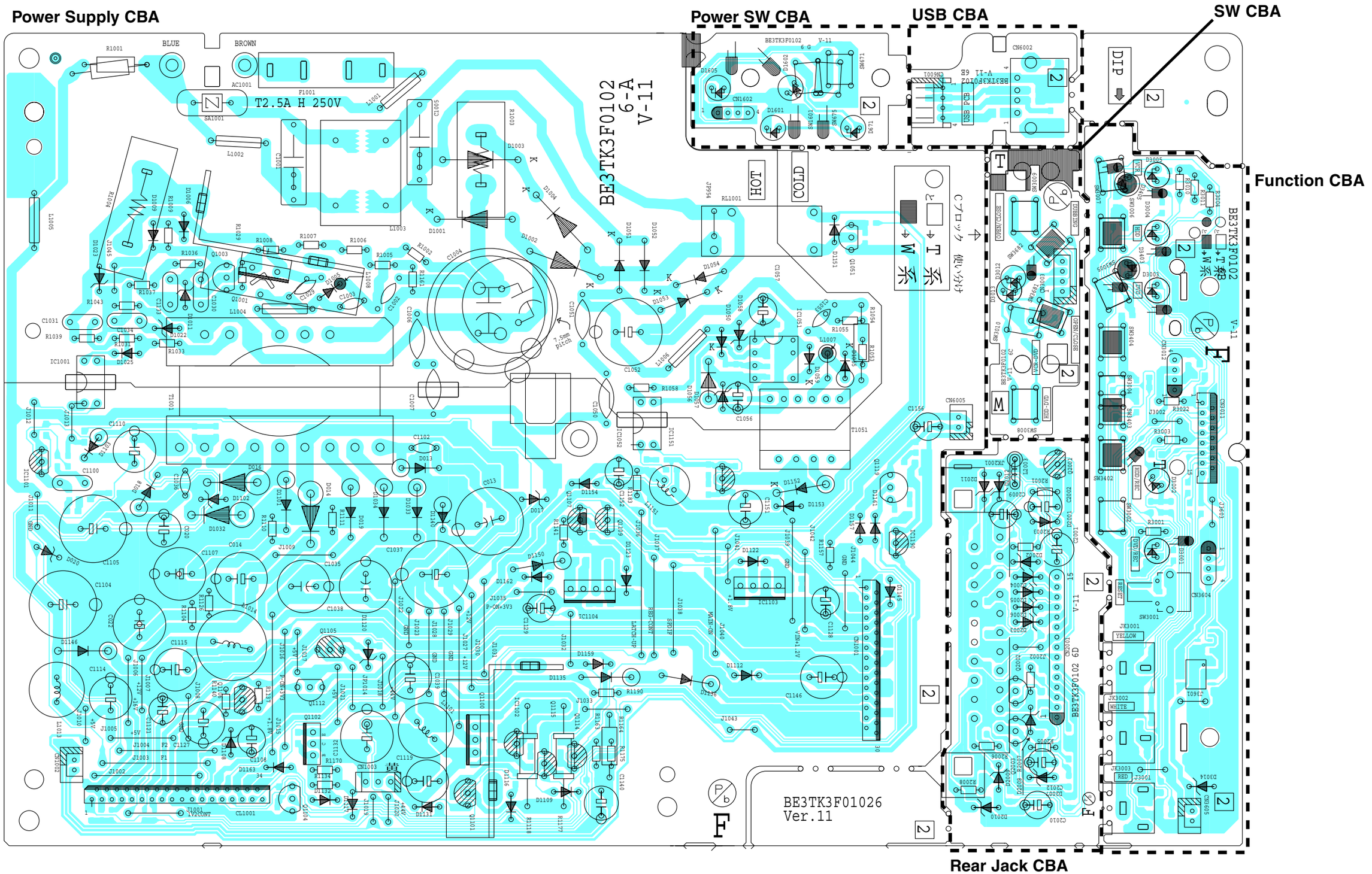
Power Supply, Function, SW, Rear Jack, USB & Power SW CBA Top View

CAUTION !
Fixed voltage (or Auto voltage selectable) power supply circuit is used in this unit.
If Main Fuse (F1001) is blown , check to see that all components in the power supply circuit are not defective before you connect the AC plug to the AC power supply.
Otherwise it may cause some components in the power supply circuit to fail.

Because a hot chassis ground is present in the power supply circuit, an isolation transformer must be used when repairing. Also, in order to have the ability to increase the input slowly, when troubleshooting this type of power supply circuit, a variable isolation transformer is required.

NOTE:
The voltage for parts in hot circuit is measured using hot GND as a common terminal.

CAUTION !
For continued protection against fire hazard, replace only with the same type fuse.



Power Supply, Function, SW, Rear Jack, USB & Power SW CBA Bottom View

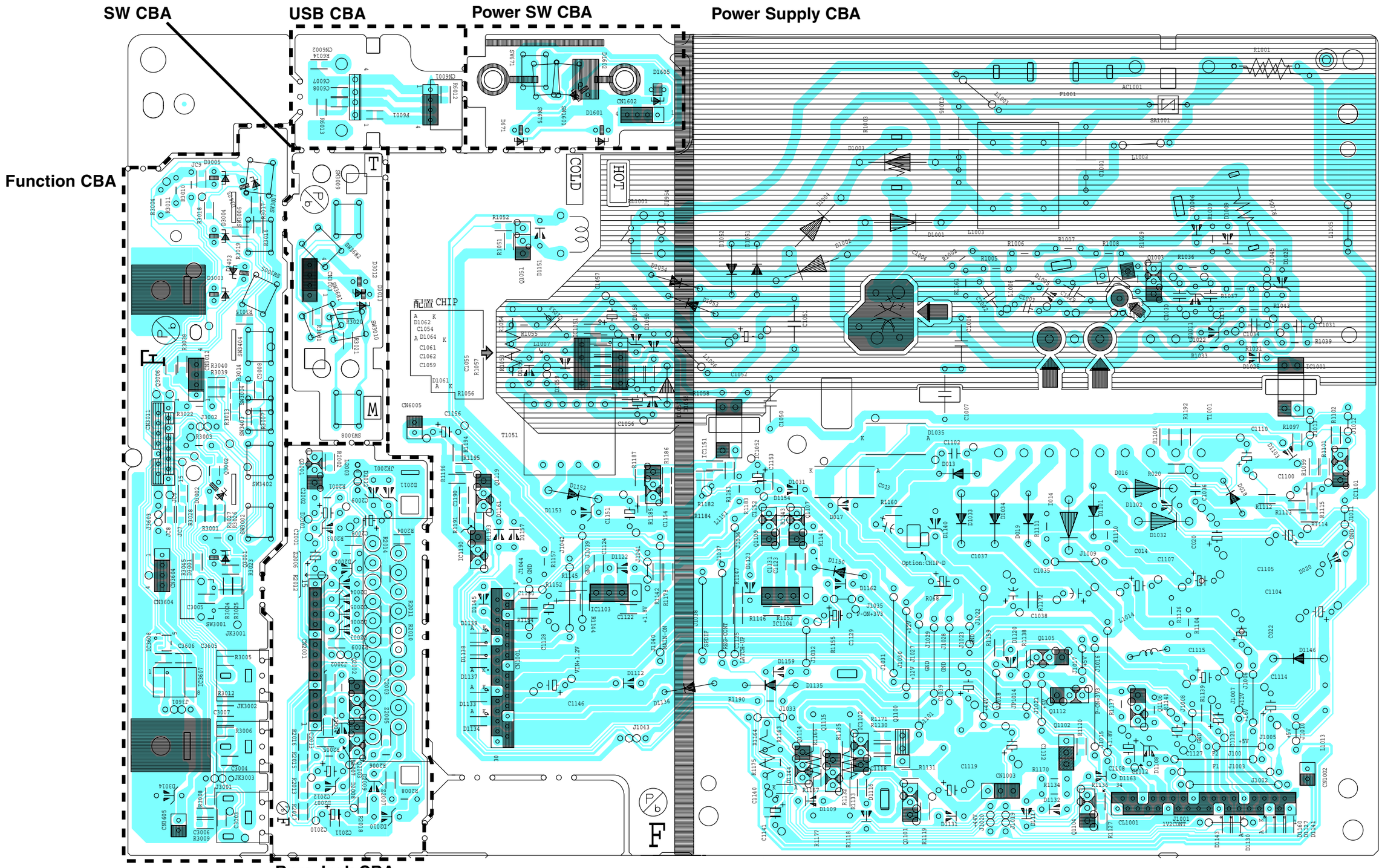
CAUTION !
Fixed voltage (or Auto voltage selectable) power supply circuit is used in this unit.
If Main Fuse (F1001) is blown , check to see that all components in the power supply circuit are not defective before you connect the AC plug to the AC power supply.
Otherwise it may cause some components in the power supply circuit to fail.

CAUTION !
For continued protection against fire hazard, replace only with the same type fuse(F6001).

Because a hot chassis ground is present in the power supply circuit, an isolation transformer must be used when repairing. Also, in order to have the ability to increase the input slowly, when troubleshooting this type of power supply circuit, a variable isolation transformer is required.

NOTE:
The voltage for parts in hot circuit is measured using hot GND as a common terminal.

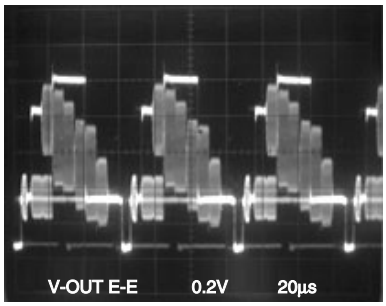
CAUTION !
For continued protection against fire hazard, replace only with the same type fuse.



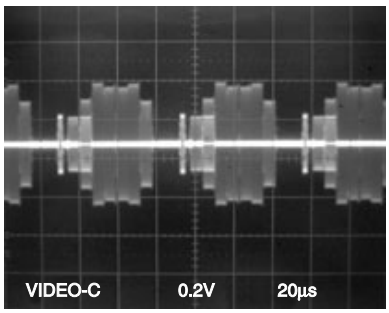
WAVEFORMS

NOTE:
Input: COLOR BAR SIGNAL (WITH 1KHz AUDIO SIGNAL)

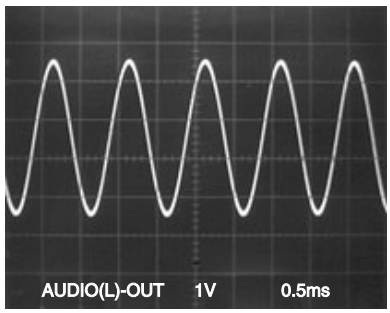
WF1 Pin 56 of IC301



WF5 Pin 9 of CN1502

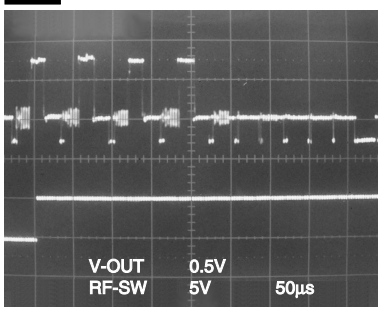


WF9 Pin 17 of CN1502

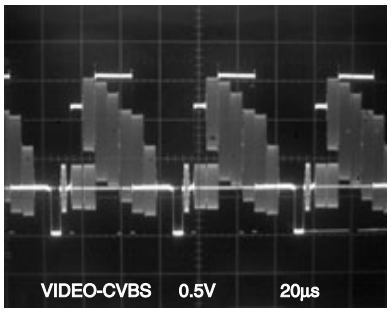


WF1 UPPER Pin 56 of IC301

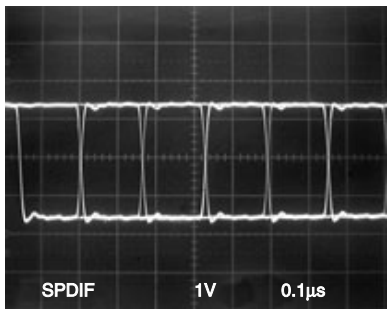
WF2 LOWER TP504



WF6 Pin 30 of IC1509

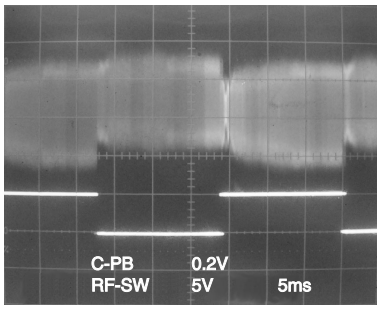


WF10 Pin 28 of CN1503

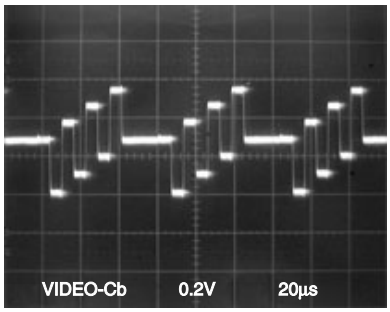


WF3 UPPER TP301

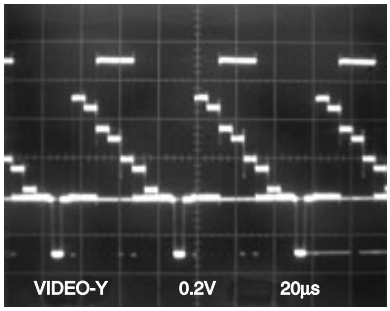
WF2 LOWER TP504



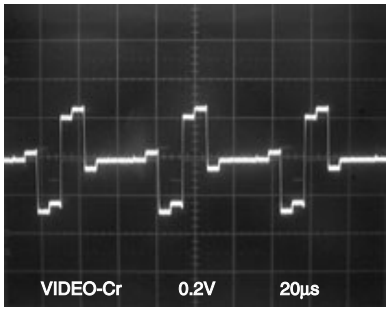
WF7 Pin 3 of CN1502



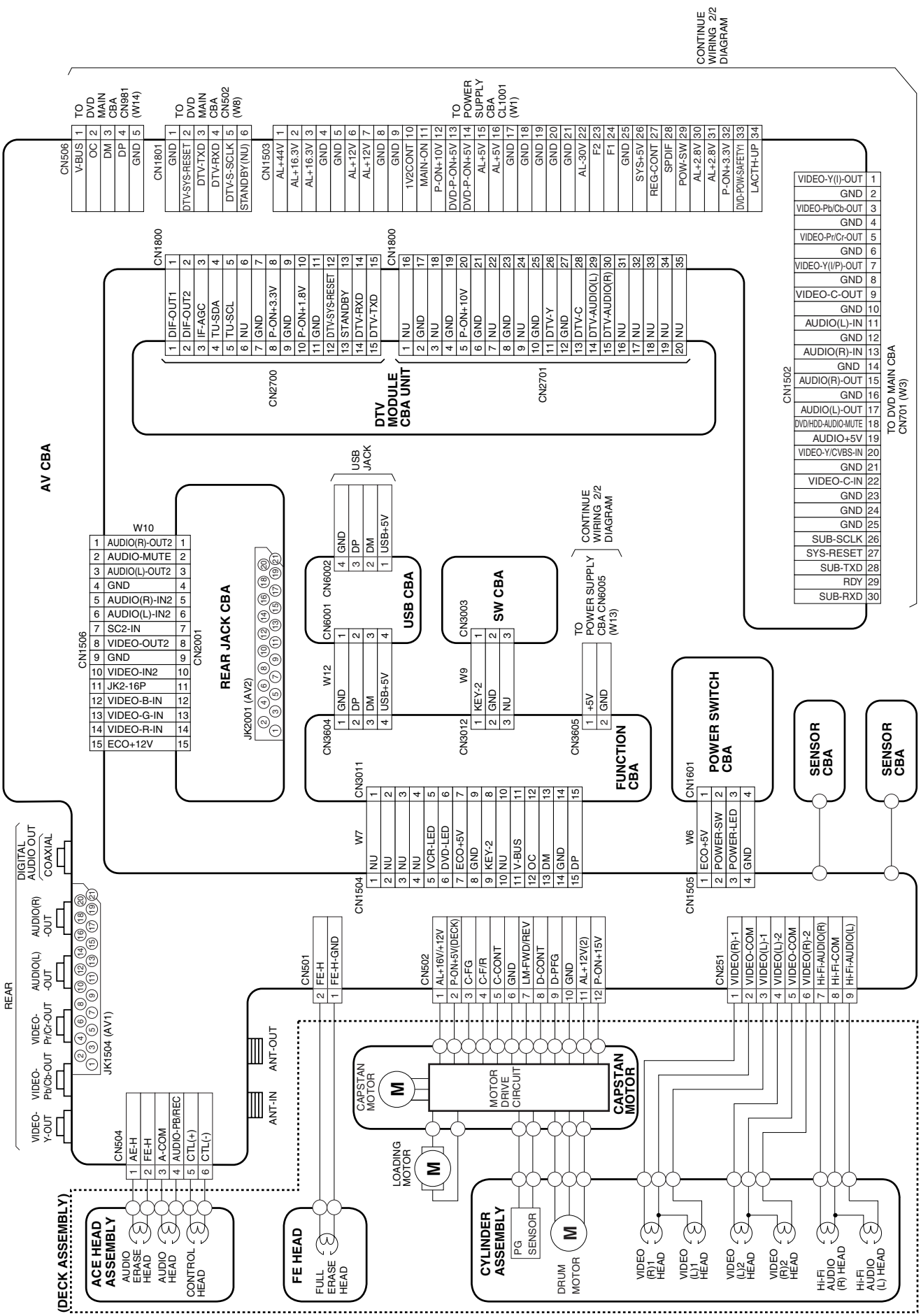
WF4 Pin 7 of CN1502



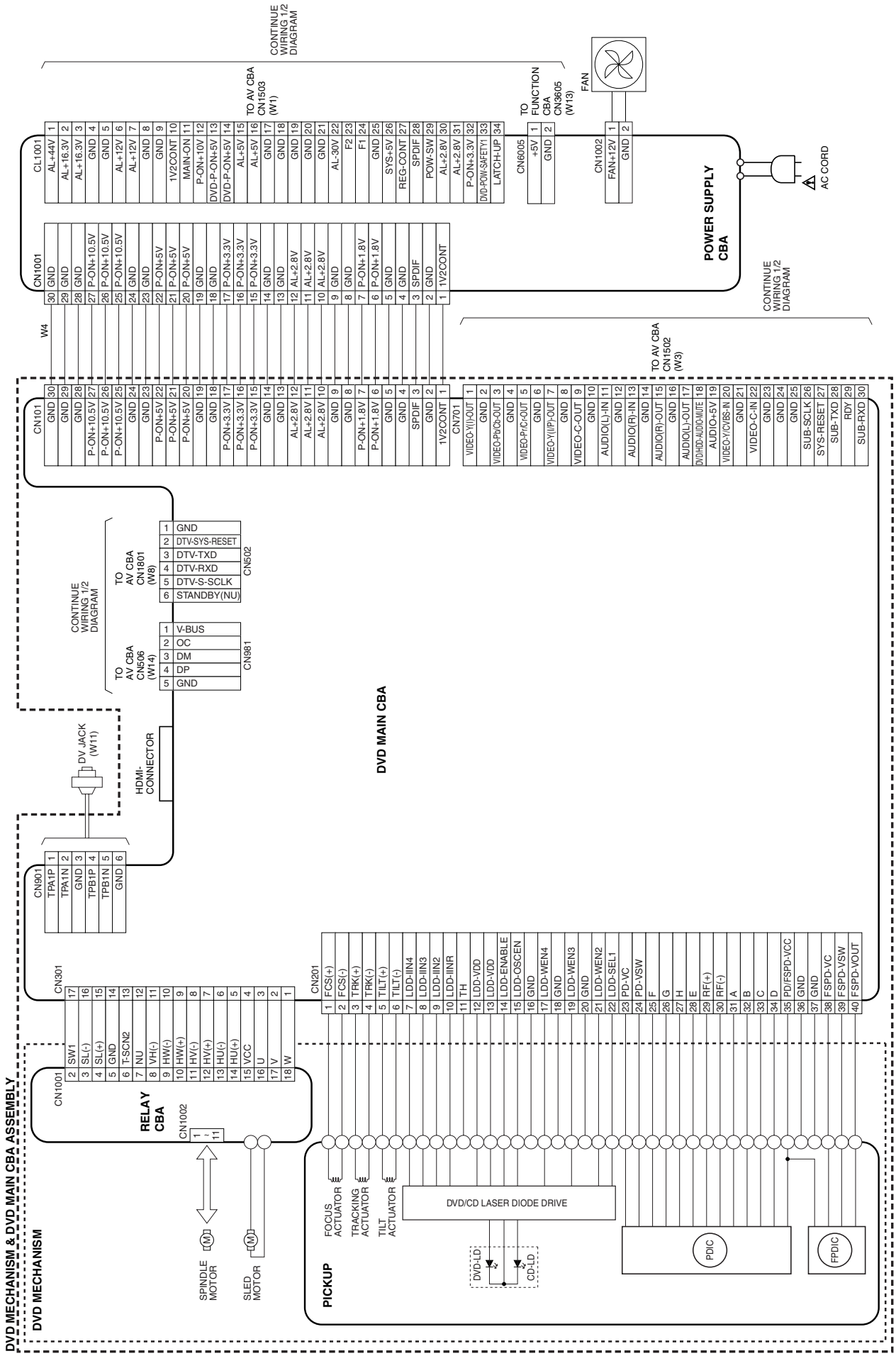
WF8 Pin 5 of CN1502



WIRING DIAGRAM < VCR SECTION >


CONTINUE WIRING 2/2 DIAGRAM
TO DVD MAIN CBA CN981 (W14)
TO DVD MAIN CBA CN502 (W8)
TO POWER SUPPLY CBA CL1001 (W1)
CN506 V-BUS OC DM DP GND
CN1801 GND DTV-SYS-RESET DTV-TXD DTV-RXD DTV-S-SCLK STANDBY(NU)
CN1503 AL+44V AL+16.3V AL+16.3V GND GND AL+12V AL+12V GND GND 1V2CONT MAIN-ON P-ON+10V DVD-P-ON+5V DVD-P-ON+5V AL+5V AL+5V GND AL-30V F2 F1 GND SYS+5V REG-CONT SPDIF POW-SW AL+2.8V AL+2.8V P-ON+3.3V DVD-POW-SAFETY! LACTH-UP
CN1502 VIDEO-Y(I)-OUT GND VIDEO-Pb/Cb-OUT GND VIDEO-Pr/Cr-OUT GND VIDEO-Y(I/P)-OUT GND VIDEO-C-OUT GND AUDIO(L)-IN GND AUDIO(R)-IN GND AUDIO(R)-OUT GND AUDIO(L)-OUT DVD/HDD-AUDIO-MUTE AUDIO+5V VIDEO-Y/CVBS-IN GND VIDEO-C-IN GND GND GND SUB-SCLK SYS-RESET SUB-TXD RDY SUB-RXD
TO DVD MAIN CBA CN701 (W3)
CN1800 DIF-OUT1 DIF-OUT2 IF-AGC TU-SDA TU-SCL NU GND P-ON+3.3V GND P-ON+1.8V GND DTV-SYS-RESET STANDBY DTV-RXD DTV-TXD
CN1800 NU GND NU GND P-ON+10V GND NU GND DTV-Y GND DTV-C DTV-AUDIO(L) DTV-AUDIO(R) NU NU NU NU NU
CN2700
CN2701
DTV MODULE CBA UNIT
AV CBA
USB JACK GND DP DM USB+5V
CN6001 CN6002
USB CBA
CN3003
SW CBA
KEY-2 GND NU
CONTINUE WIRING 2/2 DIAGRAM
TO POWER SUPPLY CBA CN6005 (W13) +5V GND
W10 AUDIO(R)-OUT2 AUDIO-MUTE AUDIO(L)-OUT2 GND AUDIO(R)-IN2 AUDIO(L)-IN2 SC2-IN VIDEO-OUT2 GND VIDEO-IN2 JK2-16P VIDEO-B-IN VIDEO-G-IN VIDEO-R-IN ECO+12V
CN1506
CN2001
REAR JACK CBA
JK2001 (AV2)
W12 GND DP DM USB+5V
W9 KEY-2 GND NU
CN3604
CN3012
CN3605
FUNCTION CBA
W7 NU NU NU NU VCR-LED DVD-LED ECO+5V GND KEY-2 NU V-BUS OC DM GND DP
CN3011
CN1504
W6 ECO+5V POWER-SW POWER-LED GND
CN1601
CN1505
POWER SWITCH CBA
SENSOR CBA
SENSOR CBA
DIGITAL AUDIO OUT COAXIAL
REAR
AUDIO(R) -OUT
AUDIO(L) -OUT
VIDEO-Pr/Cr-OUT
VIDEO-Pb/Cb-OUT
VIDEO-Y-OUT
JK1504 (AV1)
ANT-IN
ANT-OUT
CN504 AE-H FE-H A-COM AUDIO-PB/REC CTL(+) CTL(-)
CN501 FE-H FE-H-GND
CN502 AL+16V/+12V P-ON+5V(DECK) C-FG C-F/R C-CONT GND LM-FWD/REV D-CONT D-PFG GND AL+12V(2) P-ON+15V
CN251 VIDEO(R)-1 VIDEO-COM VIDEO(L)-1 VIDEO(L)-2 VIDEO-COM VIDEO(R)-2 Hi-Fi-AUDIO(R) Hi-Fi-COM Hi-Fi-AUDIO(L)
CAPSTAN MOTOR
MOTOR DRIVE CIRCUIT
CAPSTAN MOTOR
LOADING MOTOR
(DECK ASSEMBLY)
ACE HEAD ASSEMBLY
AUDIO ERASE HEAD
AUDIO HEAD
CONTROL HEAD
FE HEAD
FULL ERASE HEAD
CYLINDER ASSEMBLY
PG SENSOR
DRUM MOTOR
VIDEO (R)1 HEAD
VIDEO (L)1 HEAD
VIDEO (L)2 HEAD
VIDEO (R)2 HEAD
Hi-Fi AUDIO (R) HEAD
Hi-Fi AUDIO (L) HEAD

WIRING DIAGRAM < DVD SECTION >



IC PIN FUNCTION DESCRIPTIONS

< VCR Section >

IC501 (MICROCONTROLLER 8BIT SERVO / SYSTEM CONTROL)

Pin No.	IN/ OUT	Signal Name	Function
1	IN	SC2-IN	Input Signal from Pin 8 of SCART2
2	IN	PG-DELAY	Video Head Switching Pulse Signal Adjusted Voltage
3	IN	DVD-POW-SAFETY1	DVD P-ON Power Detection Input Signal 1
4	IN	END-S	Tape End Position Detect Signal
5	IN	AFC	Tuner Voltage Input Signal
6	IN	V-ENV	Video Envelope Comparator Signal
7	IN	KEY-1	Key Data Input 1
8	IN	KEY-2	Key Data Input 2
9	IN	LD-SW	Deck Mode Position Detector Signal
10	IN	DVD-POW-SAFETY2	DVD P-ON Power Detection Input Signal 2
11	-	NU	Not Used
12	-	NU	Not Used
13	OUT	D-V-SYNC	Dummy V-sync Output
14	IN	REMOTE	Remote Signal Input
15	OUT	C-ROTA	Color Phase Rotary Changeover Signal
16	OUT	H-A-SW	Video Head Amp Switching Pulse
17	IN	H-A-COMP	Head Amp Comparator Signal
18	OUT	RF-SW	Video Head Switching Pulse
19	OUT	Hi-Fi-H-SW	HiFi Audio Head Switching Pulse
20	-	NU	Not Used
21	-	NU	Not Used
22	-	NU	Not Used
23	-	NU	Not Used
24	OUT	DVD-SC2-AUDIO-MUTE	SCART Jack Audio Mute Control Signal 2 (Mute="L")
25	OUT	1V2CONT	1.2V Regulator Control Signal
26	IN	DVD-AUDIO-MUTE	DVD Audio Mute Control Signal (Mute="L")
27	OUT	VCR-AUDIO-MUTE	VCR Audio Mute Control Signal (Mute="L")
28	IN	A-MODE	Hi-Fi Tape Defection Signal
29	OUT	AUDIO-MUTE	Audio Mute Control Signal (Mute="L")
30	OUT	SC-AUDIO-MUTE	SCART Jack Audio Mute Control Signal (Mute="L")
31	IN	REC-SAF-SW	Recording Safety SW Detect (With Record tab= "L"/ With out Record tab="H")
32	IN	P-DOWN-H	Power Voltage Down Detector Signal
33	OUT	D-REC-H	Delayed Record Signal
34	IN	RESET	Micro Controller Reset Signal
35	IN	Xcin	Sub Clock Input
36	OUT	Xcout	Sub Clock Output
37	-	Vcc	Always +5V with AC Plug Connected
38	IN	Xin	Main Clock Input
39	OUT	Xout	Main Clock Output
40	-	Vss	Ground
41	OUT	8POUT-1	Control SCART1 8Pin Level by using 8POUT-1
42	OUT	8POUT-2	Control SCART2 8Pin Level by using 8POUT-2
43	IN	CLKSEL	Clock Select
44	IN	OSCin	Clock Input for letter size
45	OUT	OSCout	Clock Output for letter size
46	-	NU	Ground
47	IN	LP	LP
48	IN	FSC-IN [4.43MHz]	4.43MHz Clock Input
49	-	OSDVss	Ground
50	IN	OSD-V-IN	OSD Video Signal Input
51	-	NU	Not Used
52	OUT	OSD-V-OUT	OSD Video Signal Output
53	-	OSDVcc	+5V Power Supply (OSD)
54	-	HLF	LPF Connected Terminal (Slicer)
55	IN	COLOR-IN	SECAM or MESECAM Chroma Video Input Signal at Super Impose

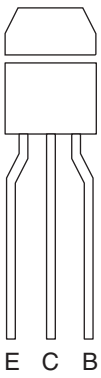
Pin No.	IN/ OUT	Signal Name	Function
56	IN	DAVN-L	VPS/PDC Data (Receive="L")
57	-	NU	Ground
58	IN	C-SYNC	Composite Synchronized Pulse
59	OUT	POW-SW	Power Switching Signal
60	OUT	REG-CONT	Power Regulator Control Signal
61	IN	SECAM-H	SECAM Mode at High
62	OUT	TRICK-H	Special Playback="H" in SECAM Mode
63	OUT	SYS-RESET	System Reset Signal
64	IN	RDY	Ready/Busy Communication Control with Main Micro Controller
65	OUT	SUB-TXD	Transmission Data to Main Micro Controller
66	IN	SUB-RXD	Reception Data from Main Micro Controller
67	OUT	SUB-SCLK	Communication Clock with Main Micro Controller
68	OUT	DRV-DATA	VFD Driver IC Control Data
69	OUT	DRV-STB	VFD Driver IC Chip Select Signal
70	OUT	DRV-CLK	VFD Driver IC Control Clock
71	OUT	IIC-BUS SCL	IIC BUS Serial Clock
72	IN/ OUT	IIC-BUS SDA	IIC BUS Serial Data
73	-	NU	Not Used
74	-	NU	Not Used
75	OUT	P-ON-H	Power On Signal to High
76	OUT	C-CONT	Capstan Motor Control Signal
77	OUT	D-CONT	Drum Motor Control Signal
78	OUT	C-F/R	Capstan Motor FWD/REV Control Signal (FWD="L"/ REV="H")
79	IN	S-REEL	Supply Reel Rotation Signal
80	IN	T-REEL	Take Up Reel Rotation Signal
81	OUT	LM-FWD/ REV	Loading Motor Control Signal
82	OUT	C-POW-SW	Capstan Power Switching Signal
83	OUT	MAIN-ON	Main Power Control
84	-	NU	Not Used
85	-	NU	Not Used
86	IN	VCR-POW-SAFETY	VCR P-ON Power Defection Input Signal
87	IN	C-FG	Capstan Motor Rotation Detection Pulse
88	-	AMPVss	Ground
89	-	NU	Ground
90	IN	D-PFG	Drum Motor Phase/ Frequency Generator
91	-	AMPVREF out	V-Ref for CTL AMP
92	-	AMPVREF in	V-Ref for CTL AMP
93	-	P80/C	P80/C Terminal
94	IN/ OUT	CTL (-)	Playback/Record Control Signal (-)
95	IN/ OUT	CTL (+)	Playback/Record Control Signal (+)
96	-	AMPC	CTL AMP Connected Terminal
97	-	CTL	To Monitor for CTL AMP Output
98	-	AMPVcc	Always +5V with AC Plug Connected
99	-	AVcc	Always +5V with AC Plug Connected
100	IN	ST-S	Tape Start Position Defector Signal

IC612 (VFD DRIVER)

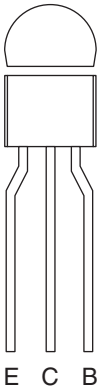
Pin No.	IN/ OUT	Signal Name	Function
1	OUT	POWER-LED	POWER-LED Control Signal
2	OUT	DVD-LED	DVD-LED Control Signal
3	OUT	VCR-LED	VCR-LED Control Signal
4	-	NU	Not Used
5	IN	OSC	Oscillator Input
6	-	NU	Not Used
7	IN	DRV-DIN	Serial Data Input
8	IN	DRV-CLK	Serial Clock Input
9	IN	DRV-STB	Serial Interface Input
10	-	NU	Not Used
11	-	NU	Not Used
12	-	VSS	Ground
13	-	VDD	Power Supply
14	-	NU	Not Used
15	-	NU	Not Used
16	-	NU	Not Used
17	-	NU	Not Used
18	-	NU	Not Used
19	-	NU	Not Used
20	OUT	P1	Segment Output Serial Data Input
21	OUT	P8	
22	OUT	P9	
23	OUT	P2	
24	OUT	P3	
25	OUT	P4	
26	OUT	P7	
27	OUT	P6	
28	OUT	P5	
29	-	NU	Not Used
30	-	VEE	Pull Down Level
31	-	NU	Not Used
32	-	NU	Not Used
33	-	NU	Not Used
34	-	NU	Not Used
35	-	NU	Not Used
36	OUT	7G	Grid Output
37		6G	
38		5G	
39		4G	
40		3G	
41		2G	
42		1G	
43	-	VDD	Power Supply
44	-	VSS	Ground

LEAD IDENTIFICATIONS

2SC3199(G, L)
2SC5343MG-AT
RC103S
RA103S
RA104S



2SA1266G
2SA1267G
2SC3198G
2SC5344 Y
8050D



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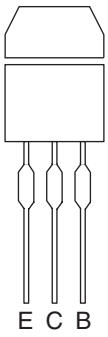

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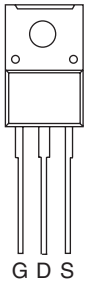

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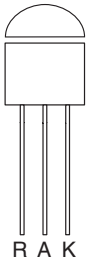

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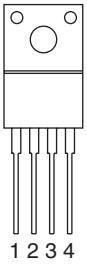

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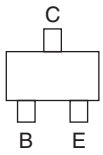
MMBTRC103SS



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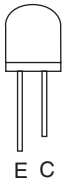

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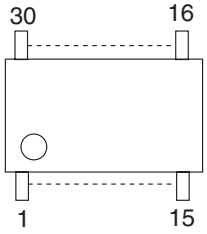

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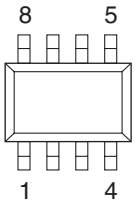
STMPS2141MTR



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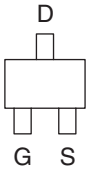

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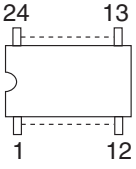

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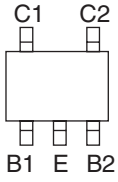

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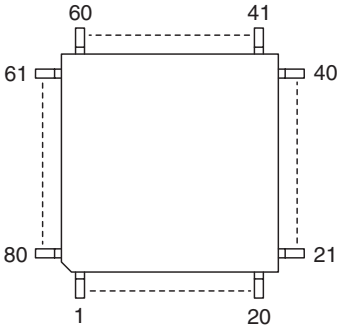
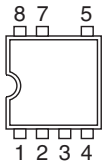


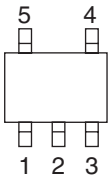
PS2561A-1-V-A(W)

1: Anode
2: Cathode
3: Emitter
4: Collector

MIP2F10MS

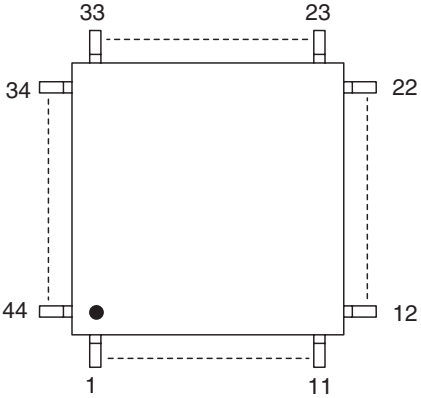


BD2225G-TR



1: VIN
2: GND
3: EN
4: /OC
5: VOUT

MSP3417G-QG-B8-V3
PT6315(L)



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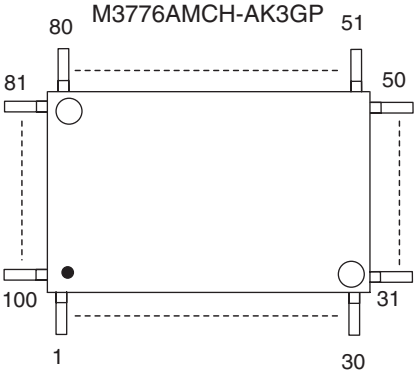

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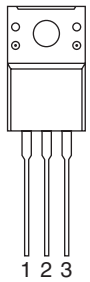
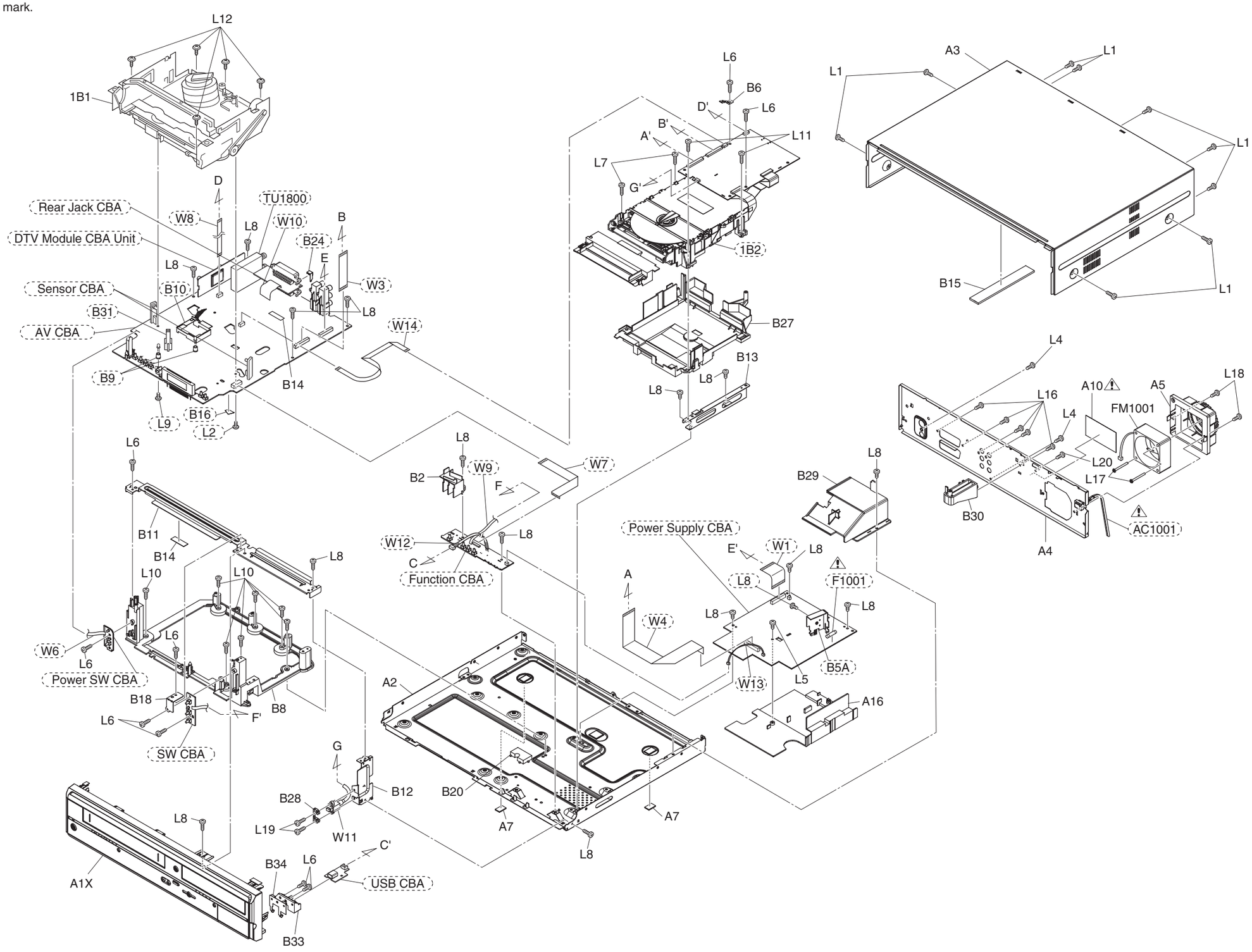


Note:
A: Anode
K: Cathode
E: Emitter
C: Collector
B: Base
R: Reference
G: Gate
D: Drain
S: Source

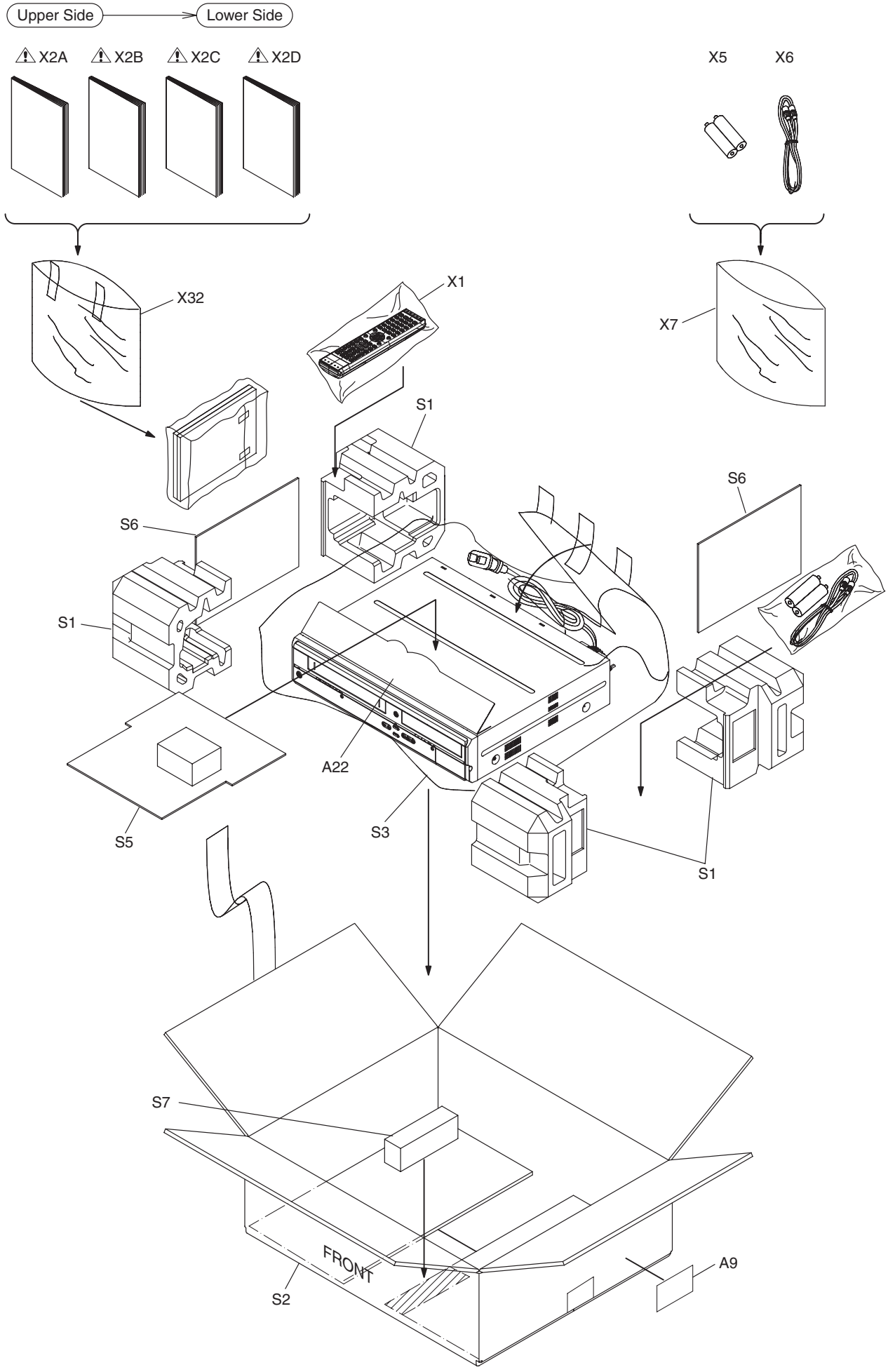
EXPLODED VIEWS

Cabinet

( ) See Electrical Parts List for parts with this mark.



Packing


Upper Side
Lower Side
X2A
X2B
X2C
X2D
X5
X6
X32
X1
X7
S1
S6
S6
S1
A22
S5
S3
S1
S7
FRONT
S2
A9

MECHANICAL PARTS LIST

PRODUCT SAFETY NOTE: Products marked with a ⚠ have special characteristics important to safety. Before replacing any of these components, read carefully the product safety notice in this service manual. Don't degrade the safety of the product through improper servicing.

NOTE: Parts that are not assigned part numbers (---------) are not available.

Ref. No.	Description	Part No.
A1X	FRONT ASSEMBLY E9TF4FD	1VM126740
A2	MAIN CHASSIS E4340UD	1VM120193V
A3	TOP COVER E3TF3FD	1VM338479
A4	REAR PANEL E9TF4FD	1VM232521
A5	FAN HOLDER ASSEMBLY E43A0JD	1VM425152
A7	FOOT E6500UD	0VM416122
A9	SERIAL NO. LABEL E9TF4FD	---------
A10⚠	RATING LABEL E9TF4FD	---------
A16	POWER HOLDER E3TK3FD	1VM330398
A22	TOPPER POP E9TF4FD	---------
1B1	DECK ASSEMBLY CZD014/VM25E0	N25E1FL
B2	MODE LENS HOLDER E3TG0FD	1VM430599
B6	MECHA EARTH PLATE F E9A80UD	1VM424039B
B8	DECK PEDESTAL E9TK0FD	1VM330600
B11	FRONT BRACKET E9400UD	0VM204534D
B12	FRONT BRACKET R E9A80UD	1VM322182C
B13	BRACKET R E9600UD	1VM421062F
B14	TAPE HIMELON H9206JD	0VM413956
B15	RUBBER CUSHION(TOP BOARD ASSEMBLY E3NG0FD)	1VM427939
B18	FRONT SUPPORT E4340UD	1VM422518
B20	RUBBER CUSHION (MAIN CHASSIS) E4340UD	1VM422534B
B27	DUST COVER E3TK3FD	1VM331257
B28	DV EARTH PLATE E7C40UD	1VM425194
B29	FFC GUIDE E3NG0FD	1VM223899
B30	REAR HOLDER E3NG0FD	1VM325190D
B33	USB HOLDER E3TK0FD	1VM329013B
B34	USB EARTH PLATE E3TK0FD	1VM329052
FM1001	MOTOR DC FAN 2D65BK100230	MMEZR12XNR04
L1	SCREW TAP TIGHT M3X5 BIND HEAD+BLK NI	GBHC3050
L4	SCREW TAP TIGHT M3X5 BIND HEAD+BLK NI	GBHC3050
L5	SCREW P-TIGHT M3X6 BIND HEAD+	GBJP3060
L6	SCREW P-TIGHT M3X8 BIND HEAD+	GBJP3080
L7	SCREW P-TIGHT 3X14 BIND HEAD +	GBJP3140
L8	SCREW C-TIGHT M3X6 E5610UD	0VM412937A
L10	SCREW S-TIGHT 3X8 H9210UD	0VM413320A
L11	SCREW S-TIGHT M3X10 BIND HEAD+	GBJS3100
L12	SCREW P-TIGHT M3*10 WASHERHEAD+	GCJP3100
L16	SCREW P-TIGHT M3X8 BIND HEAD+ BLK	GBHP3080
L17	SCREW P-TIGHT M3X30 BIND HEAD+	GBJP3300
L18	S-TIGHT SCREW M3X6 BIND HEAD+BLACK	GBHS3060
L19	SCREW S-TIGHT 3X8 H9210UD	0VM413320A
L20	SCREW M3X4 M3X4 BIND+ (B-NI)	SBH33040
W11	IEEE 1394 CABLE 330MM BLACK or	WPZ331SCP001
	IEEE1394 CABLE JE-1710-9 or	WPZ0331WJ001
	IEEE1394 CABLE CA1004020242510 or	WPZ0331LW001
	IEEE1394 CABLE LP-001-24	WPZ3310LG001
PACKING		
S1	STYROFOAM E434AED	1VM120713F
S2	GIFT BOX CARTON E9TF4FD	1VM338496
S3	SET BAG E3TK4BD	1VM433521C
S5	TOP PAD E434AED	1VM423574
S6	SIDE CARTON E3NG0FD	1VM428399
S7	BOTTOM PAD E434AED	1VM423575
ACCESSORIES		
X1	REMOTE CONTROL UNIT NC126FD	NC126FD
X2A⚠	OWNERS MANUAL(EN) E9TF4FD	1VMN31577
X2B⚠	OWNERS MANUAL(FR) E9TF4FD	1VMN31578
X2C⚠	OWNERS MANUAL(DE) E9TF4FD	1VMN31579
X2D⚠	OWNERS MANUAL(ES) E9TF4FD	1VMN31580
X5	MANGANESE DRY BATTERY R6UWC/2STA or	XB0M311MS003
	DRY BATTERY ES-GR6M-C	XB0M571GLP01
X6	RF CORD PAL 1.2M or	WPZ0122LG001
	RF CABLE CC1001020012010	WPZ0122LW001
X7	REMOCON BAG E9704ED	1VM422101
X32	ACCESSORY BAG E4340UD	1VM422755

ELECTRICAL PARTS LIST

PRODUCT SAFETY NOTE: Products marked with a ⚠ have special characteristics important to safety. Before replacing any of these components, read carefully the product safety notice in this service manual. Don't degrade the safety of the product through improper servicing.

NOTES:

1. Parts that are not assigned part numbers (---------) are not available.
2. Tolerance of Capacitors and Resistors are noted with the following symbols.

C.....±0.25%	D.....±0.5%	F.....±1%
G.....±2%	J.....±5%	K.....±10%
M.....±20%	N.....±30%	Z.....+80/-20%

DVD MECHANISM & DVD MAIN CBA ASSEMBLY

Ref. No.	Description	Part No.
1B2	DVD MECHANISM & DVD MAIN CBA ASSEMBLY	N78GGFFN

AV ASSEMBLY

Ref. No.	Description	Part No.
	AV ASSEMBLY Consists of the following	1VSA24788
	AV CBA DTV MODULE CBA UNIT SENSOR CBA	--------- N76ETCEA 1VSA13519

AV CBA

Ref. No.	Description	Part No.
	AV CBA Consists of the following:	---------
	CAPACITORS	
C251	ELECTROLYTIC CAP. 10μF/16V/M/H7 or	CEC10RENW025
	CAP ELECTROLYTIC 10μF/16V/M/H7 or	CA1C100ENE10
	ELECTROLYTIC CAP. 10μF/16V M H7	CE1CMAVSL100
C252	CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104
	CHIP CERAMIC CAP.(1608) Y5V/Z/0.1μF/50V	CHD1040YF102
C253	CHIP CERAMIC CAP.(1608) B K 1000pF/50V or	CHD1JK30B102
	CHIP CERAMIC CAP.(1608) X7R/K/1000pF/50V	CHD1020YF069
C254	ELECTROLYTIC CAP. 1μF/50V/M/H7 or	CEF1R0ENW025
	CAP ELECTROLYTIC 1μF/50V/M/H7 or	CA1J1R0ENE10
	ELECTROLYTIC CAP. 1μF/50V M H7	CE1JMAVSL1R0
C301	CHIP CERAMIC CAP.(1608) B K 0.022μF/50V or	CHD1JK30B223
	CHIP CERAMIC CAP.(1608) X7R/K/0.022μF/50V	CHD2230YF069
C302	ELECTROLYTIC CAP. 1μF/50V/M/H7 or	CEF1R0ENW025
	CAP ELECTROLYTIC 1μF/50V/M/H7 or	CA1J1R0ENE10
	ELECTROLYTIC CAP. 1μF/50V M H7	CE1JMAVSL1R0
C303	CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104
	CHIP CERAMIC CAP.(1608) Y5V/Z/0.1μF/50V	CHD1040YF102
C305	ELECTROLYTIC CAP. 1μF/50V/M/H7 or	CEF1R0ENW025
	CAP ELECTROLYTIC 1μF/50V/M/H7 or	CA1J1R0ENE10
	ELECTROLYTIC CAP. 1μF/50V M H7	CE1JMAVSL1R0
C306	CHIP CERAMIC CAP.(1608) B K 0.047μF/50V or	CHD1JK30B473
	CHIP CERAMIC CAP.(1608) X7R/K/0.047μF/50V	CHD4730YF069
C307	CHIP CERAMIC CAP.(1608) B K 0.022μF/50V or	CHD1JK30B223
	CHIP CERAMIC CAP.(1608) X7R/K/0.022μF/50V	CHD2230YF069
C308	CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104
	CHIP CERAMIC CAP.(1608) Y5V/Z/0.1μF/50V	CHD1040YF102
C311	CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104
	CHIP CERAMIC CAP.(1608) Y5V/Z/0.1μF/50V	CHD1040YF102
C312	ELECTROLYTIC CAP. 10μF/16V/M/H7 or	CEC10RENW025
	CAP ELECTROLYTIC 10μF/16V/M/H7 or	CA1C100ENE10
	ELECTROLYTIC CAP. 10μF/16V M H7	CE1CMAVSL100
C313	ELECTROLYTIC CAP. 1μF/50V/M/H7 or	CEF1R0ENW025
	CAP ELECTROLYTIC 1μF/50V/M/H7 or	CA1J1R0ENE10
	ELECTROLYTIC CAP. 1μF/50V M H7	CE1JMAVSL1R0
C314	CHIP CERAMIC CAP.(1608) B K 0.01μF/50V or	CHD1JK30B103
	CHIP CERAMIC CAP.(1608) X7R/K/0.01μF/50V	CHD1030YF069
C315	CHIP CERAMIC CAP.(1608) B K 0.047μF/50V or	CHD1JK30B473
	CHIP CERAMIC CAP.(1608) X7R/K/0.047μF/50V	CHD4730YF069
C316	ELECTROLYTIC CAP. 1μF/50V/M/H7 or	CEF1R0ENW025
	CAP ELECTROLYTIC 1μF/50V/M/H7 or	CA1J1R0ENE10
	ELECTROLYTIC CAP. 1μF/50V M H7	CE1JMAVSL1R0
C317	CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104
	CHIP CERAMIC CAP.(1608) Y5V/Z/0.1μF/50V	CHD1040YF102
C318	CHIP CERAMIC CAP.(1608) B K 0.022μF/50V or	CHD1JK30B223
	CHIP CERAMIC CAP.(1608) X7R/K/0.022μF/50V	CHD2230YF069
C323	CHIP CERAMIC CAP.(1608) CH J 68pF/50V or	CHD1JJ3CH680
	CAP CHIP 1608 NP0/J/68pF/50V	CHD6800YF020
C324	CHIP CERAMIC CAP.(1608) B K 0.01μF/50V or	CHD1JK30B103
	CHIP CERAMIC CAP.(1608) X7R/K/0.01μF/50V	CHD1030YF069
C325	CHIP CERAMIC CAP. B K 8200pF/50V or	CHD1JK30B822
	CHIP CERAMIC CAP.(1608) X7R/K/8200pF/50V	CHD8220YF069
C326	CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104
	CHIP CERAMIC CAP.(1608) Y5V/Z/0.1μF/50V	CHD1040YF102
C328	ELECTROLYTIC CAP. 47μF/6.3V/M/H7 or	CEA47RENW025
	CAP ELECTROLYTIC 47μF/6.3V/M/H7 or	CA0K470ENE10
	ELECTROLYTIC CAP. 47μF/6.3V M H7	CE0KMAVSL470
C329	CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104
	CHIP CERAMIC CAP.(1608) Y5V/Z/0.1μF/50V	CHD1040YF102
C331	ELECTROLYTIC CAP. 220μF/6.3V/M/H7 or	CEA221ENW025
	CAP ELECTROLYTIC 220μF/6.3V/M/H7 or	CA0K221ENE10
	ELECTROLYTIC CAP. 220μF/6.3V M H7	CE0KMAVSL221
C332	ELECTROLYTIC CAP. 100μF/16V M H7 or	CEC101ENW025
	CAP ELECTROLYTIC 100μF/16V/M/H7 or	CA1C101ENE10
	ELECTROLYTIC CAP. 100μF/16V M H7	CE1CMAVSL101
C333	CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104
	CHIP CERAMIC CAP.(1608) Y5V/Z/0.1μF/50V	CHD1040YF102
C334	ELECTROLYTIC CAP. 1μF/50V/M/H7 or	CEF1R0ENW025
	CAP ELECTROLYTIC 1μF/50V/M/H7 or	CA1J1R0ENE10
	ELECTROLYTIC CAP. 1μF/50V M H7	CE1JMAVSL1R0
C335	ELECTROLYTIC CAP. 100μF/6.3V/M/H7 or	CEA101ENW025
	CAP ELECTROLYTIC 100μF/6.3V/M/H7 or	CA0K101ENE10
	ELECTROLYTIC CAP. 100μF/6.3V H7	CE0KMAVSL101
C336	CHIP CERAMIC CAP. CH J 220pF/50V or	CHD1JJ3CH221
	CHIP CERAMIC CAP.(1608) NP0/J/220pF/50V	CHD2210YF020
C337	CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104
	CHIP CERAMIC CAP.(1608) Y5V/Z/0.1μF/50V	CHD1040YF102
C339	CHIP CERAMIC CAP. CH J 120pF/50V or	CHD1JJ3CH121
	CHIP CERAMIC CAP.(1608) NP0/J/120pF/50V	CHD1210YF020
C340	ELECTROLYTIC CAP. 1μF/50V/M/H7 or	CEF1R0ENW025
	CAP ELECTROLYTIC 1μF/50V/M/H7 or	CA1J1R0ENE10
	ELECTROLYTIC CAP. 1μF/50V M H7	CE1JMAVSL1R0
C341	CHIP CERAMIC CAP.(1608) CH D 10pF/50V or	CHD1JD3CH100
	CHIP CERAMIC CAP. NP0/D/10pF/50V	CHD1000YF017
C342	CHIP CERAMIC CAP.(1608) B K 1000pF/50V or	CHD1JK30B102
	CHIP CERAMIC CAP.(1608) X7R/K/1000pF/50V	CHD1020YF069

Ref. No.	Description	Part No.
C343	ELECTROLYTIC CAP. 10μF/16V/M/H7 or	CEC10RENW025
	CAP ELECTROLYTIC 10μF/16V/M/H7 or	CA1C100ENE10
	ELECTROLYTIC CAP. 10μF/16V M H7	CE1CMAVSL100
C344	ELECTROLYTIC CAP. 4.7μF/25V M NP H7 or	CED4R7ENW050
	CAP ELECTROLYTIC 4.7μF/25V/M/H7/NP or	CA1E4R7ENE07
	ELECTROLYTIC CAP. 4.7μF/25V M NP H7 or	CP1EMAVSB4R7
	ELECTROLYTIC CAP. 4.7μF/25V M NP H7	CER4R7KSN011
C345	ELECTROLYTIC CAP. 0.47μF/50V/M/H7 or	CEFR47ENW025
	CAP ELECTROLYTIC 0.47μF/50V/M/H7 or	CA1JR47ENE10
	ELECTROLYTIC CAP. 0.47μF/50V M H7	CE1JMAVSLR47
C346	CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104
	CHIP CERAMIC CAP.(1608) Y5V/Z/0.1μF/50V	CHD1040YF102
C347	CHIP CERAMIC CAP.(1608) B K 0.1μF/25V or	CHD1EK30B104
	CHIP CERAMIC CAP.(1608) X7R/K/ 0.1μF/25V	CHD1040YF066
C349	ELECTROLYTIC CAP. 0.47μF/50V/M/H7 or	CEFR47ENW025
	CAP ELECTROLYTIC 0.47μF/50V/M/H7 or	CA1JR47ENE10
	ELECTROLYTIC CAP. 0.47μF/50V M H7	CE1JMAVSLR47
C350	CAP CERAMIC (AX) 0.1μF/50V/F/Z	CA1J104TU062
C370	CAP CERAMIC (AX) 0.01μF/16V/B/M	CA1C103TU055
C371	CHIP CERAMIC CAP.(1608) B K 0.022μF/50V or	CHD1JK30B223
	CHIP CERAMIC CAP.(1608) X7R/K/0.022μF/ 50V	CHD2230YF069
C372	CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104
	CHIP CERAMIC CAP.(1608) Y5V/Z/0.1μF/50V	CHD1040YF102
C373	CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104
	CHIP CERAMIC CAP.(1608) Y5V/Z/0.1μF/50V	CHD1040YF102
C374	CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104
	CHIP CERAMIC CAP.(1608) Y5V/Z/0.1μF/50V	CHD1040YF102
C375	CHIP CERAMIC CAP.(1608) B K 0.01μF/50V or	CHD1JK30B103
	CHIP CERAMIC CAP.(1608) X7R/K/0.01μF/50V	CHD1030YF069
C376	CHIP CERAMIC CAP.(1608) B K 0.022μF/50V or	CHD1JK30B223
	CHIP CERAMIC CAP.(1608) X7R/K/0.022μF/ 50V	CHD2230YF069
C377	CAP CERAMIC (AX) 0.01μF/50V/B/K	CA1J103TU061
C378	CHIP CERAMIC CAP.(1608) B K 0.01μF/50V or	CHD1JK30B103
	CHIP CERAMIC CAP.(1608) X7R/K/0.01μF/50V	CHD1030YF069
C379	ELECTROLYTIC CAP. 0.47μF/50V/M/H7 or	CEFR47ENW025
	CAP ELECTROLYTIC 0.47μF/50V/M/H7 or	CA1JR47ENE10
	ELECTROLYTIC CAP. 0.47μF/50V M H7	CE1JMAVSLR47
C381	CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104
	CHIP CERAMIC CAP.(1608) Y5V/Z/0.1μF/50V	CHD1040YF102
C382	CHIP CERAMIC CAP. B K 2200pF/50V or	CHD1JK30B222
	CHIP CERAMIC CAP.(1608) X7R/K/2200pF/50V	CHD2220YF069
C383	CHIP CERAMIC CAP. B K 2200pF/50V or	CHD1JK30B222
	CHIP CERAMIC CAP.(1608) X7R/K/2200pF/50V	CHD2220YF069
C384	ELECTROLYTIC CAP. 2.2μF/50V/M/H7 or	CEF2R2ENW025
	CAP ELECTROLYTIC 2.2μF/50V/M/H7 or	CA1J2R2ENE10
	ELECTROLYTIC CAP. 2.2μF/50V M H7	CE1JMAVSL2R2
C402	CAP POLYESTER FILM 0.018μF/100V J or	CA2A183SER02
	POLYESTER FILM CAP. 0.018μF/100V J or	CMB183EUR001
	POLYESTER FILM CAP. (PB FREE) 0.018μF/ 100V J	CA2A183DT018
C403	CERAMIC CAP. B K 470pF/100V	CCD2AKS0B471
C404	ELECTROLYTIC CAP. 220μF/6.3V/M/H7 or	CEA221ENW025
	CAP ELECTROLYTIC 220μF/6.3V/M/H7 or	CA0K221ENE10
	ELECTROLYTIC CAP. 220μF/6.3V M H7	CE0KMAVSL221
C405	ELECTROLYTIC CAP. 47μF/6.3V/M/H7 or	CEA47RENW025
	CAP ELECTROLYTIC 47μF/6.3V/M/H7 or	CA0K470ENE10
	ELECTROLYTIC CAP. 47μF/6.3V M H7	CE0KMAVSL470
C407	CHIP CERAMIC CAP.(1608) B K 1000pF/50V or	CHD1JK30B102
	CHIP CERAMIC CAP.(1608) X7R/K/1000pF/50V	CHD1020YF069
C408	CHIP CERAMIC CAP. B K 1800pF/50V or	CHD1JK30B182
	CAP CHIP 1608 X7R/K/1800pF/50V	CHD1820YF069
C409	CHIP CERAMIC CAP.(1608) CH J 33pF/50V or	CHD1JJ3CH330
	CHIP CERAMIC CAP.(1608) NP0/J/33pF/50V	CHD3300YF020
C410	ELECTROLYTIC CAP. 10μF/16V/M/H7 or	CEC10RENW025
	CAP ELECTROLYTIC 10μF/16V/M/H7 or	CA1C100ENE10
	ELECTROLYTIC CAP. 10μF/16V M H7	CE1CMAVSL100

Ref. No.	Description	Part No.
C411	CHIP CERAMIC CAP.(1608) B K 0.01μF/50V or	CHD1JK30B103
	CHIP CERAMIC CAP.(1608) X7R/K/0.01μF/50V	CHD1030YF069
C412	ELECTROLYTIC CAP. 33μF/6.3V M H7 or	CEA33RENW025
	CAP ELECTROLYTIC 33μF/6.3V/M/H7 or	CA0K330ENE10
	ELECTROLYTIC CAP. 33μF/6.3V M H7	CE0KMAVSL330
C413	CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104
	CHIP CERAMIC CAP.(1608) Y5V/Z/0.1μF/50V	CHD1040YF102
C414	CHIP CERAMIC CAP.(1608) B K 0.022μF/50V or	CHD1JK30B223
	CHIP CERAMIC CAP.(1608) X7R/K/0.022μF/ 50V	CHD2230YF069
C415	ELECTROLYTIC CAP. 4.7μF/25V/M/H7 or	CED4R7ENW025
	CAP ELECTROLYTIC 4.7μF/25V/M/H7 or	CA1E4R7ENE10
	ELECTROLYTIC CAP. 4.7μF/25V M H7	CE1EMAVSL4R7
C416	CHIP CERAMIC CAP.(1608) B K 4700pF/50V or	CHD1JK30B472
	CHIP CERAMIC CAP.(1608) X7R/K/4700pF/50V	CHD4720YF069
C417	ELECTROLYTIC CAP. 22μF/6.3V M H7 or	CEA22RENW025
	CAP ELECTROLYTIC 22μF/6.3V/M/H7 or	CA0K220ENE10
	ELECTROLYTIC CAP. 22μF/6.3V M H7	CE0KMAVSL220
C418	CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104
	CHIP CERAMIC CAP.(1608) Y5V/Z/0.1μF/50V	CHD1040YF102
C419	CHIP CERAMIC CAP. B K 220pF/50V or	CHD1JK30B221
	CAP CHIP 1608 X7R/K/220pF/50V	CHD2210YF069
C421	ELECTROLYTIC CAP. 47μF/6.3V/M/H7 or	CEA47RENW025
	CAP ELECTROLYTIC 47μF/6.3V/M/H7 or	CA0K470ENE10
	ELECTROLYTIC CAP. 47μF/6.3V M H7	CE0KMAVSL470
C452	ELECTROLYTIC CAP. 10μF/16V/M/H7 or	CEC10RENW025
	CAP ELECTROLYTIC 10μF/16V/M/H7 or	CA1C100ENE10
	ELECTROLYTIC CAP. 10μF/16V M H7	CE1CMAVSL100
C453	ELECTROLYTIC CAP. 22μF/10V/M/H7 or	CEB22RENW025
	CAP ELECTROLYTIC 22μF/10V/M/H7 or	CA1A220ENE10
	ELECTROLYTIC CAP. 22μF/10V M H7	CE1AMAVSL220
C454	CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104
	CHIP CERAMIC CAP.(1608) Y5V/Z/0.1μF/50V	CHD1040YF102
C455	CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104
	CHIP CERAMIC CAP.(1608) Y5V/Z/0.1μF/50V	CHD1040YF102
C456	ELECTROLYTIC CAP. 10μF/16V/M/H7 or	CEC10RENW025
	CAP ELECTROLYTIC 10μF/16V/M/H7 or	CA1C100ENE10
	ELECTROLYTIC CAP. 10μF/16V M H7	CE1CMAVSL100
C457	ELECTROLYTIC CAP. 4.7μF/25V/M/H7 or	CED4R7ENW025
	CAP ELECTROLYTIC 4.7μF/25V/M/H7 or	CA1E4R7ENE10
	ELECTROLYTIC CAP. 4.7μF/25V M H7	CE1EMAVSL4R7
C458	CHIP CERAMIC CAP.(1608) B K 0.01μF/50V or	CHD1JK30B103
	CHIP CERAMIC CAP.(1608) X7R/K/0.01μF/50V	CHD1030YF069
C461	CHIP CERAMIC CAP.(1608) B K 0.01μF/50V or	CHD1JK30B103
	CHIP CERAMIC CAP.(1608) X7R/K/0.01μF/50V	CHD1030YF069
C462	CHIP CERAMIC CAP.(1608) B K 4700pF/50V or	CHD1JK30B472
	CHIP CERAMIC CAP.(1608) X7R/K/4700pF/50V	CHD4720YF069
C463	ELECTROLYTIC CAP. 22μF/10V/M/H7 or	CEB22RENW025
	CAP ELECTROLYTIC 22μF/10V/M/H7 or	CA1A220ENE10
	ELECTROLYTIC CAP. 22μF/10V M H7	CE1AMAVSL220
C464	CHIP CERAMIC CAP.(1608) B K 0.01μF/50V or	CHD1JK30B103
	CHIP CERAMIC CAP.(1608) X7R/K/0.01μF/50V	CHD1030YF069
C465	ELECTROLYTIC CAP. 10μF/16V/M/H7 or	CEC10RENW025
	CAP ELECTROLYTIC 10μF/16V/M/H7 or	CA1C100ENE10
	ELECTROLYTIC CAP. 10μF/16V M H7	CE1CMAVSL100
C466	CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104
	CHIP CERAMIC CAP.(1608) Y5V/Z/0.1μF/50V	CHD1040YF102
C468	ELECTROLYTIC CAP. 220μF/6.3V/M/H7 or	CEA221ENW025
	CAP ELECTROLYTIC 220μF/6.3V/M/H7 or	CA0K221ENE10
	ELECTROLYTIC CAP. 220μF/6.3V M H7	CE0KMAVSL221
C469	ELECTROLYTIC CAP. 22μF/10V/M/H7 or	CEB22RENW025
	CAP ELECTROLYTIC 22μF/10V/M/H7 or	CA1A220ENE10
	ELECTROLYTIC CAP. 22μF/10V M H7	CE1AMAVSL220
C470	CHIP CERAMIC CAP.(1608) B K 4700pF/50V or	CHD1JK30B472
	CHIP CERAMIC CAP.(1608) X7R/K/4700pF/50V	CHD4720YF069
C471	CHIP CERAMIC CAP.(1608) B K 0.01μF/50V or	CHD1JK30B103
	CHIP CERAMIC CAP.(1608) X7R/K/0.01μF/50V	CHD1030YF069

Ref. No.	Description	Part No.
C472	ELECTROLYTIC CAP. 4.7μF/25V/M/H7 or	CED4R7ENW025
	CAP ELECTROLYTIC 4.7μF/25V/M/H7 or	CA1E4R7ENE10
	ELECTROLYTIC CAP. 4.7μF/25V M H7	CE1EMAVSL4R7
C473	ELECTROLYTIC CAP. 10μF/16V/M/H7 or	CEC10RENW025
	CAP ELECTROLYTIC 10μF/16V/M/H7 or	CA1C100ENE10
	ELECTROLYTIC CAP. 10μF/16V M H7	CE1CMAVSL100
C474	CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104
	CHIP CERAMIC CAP.(1608) Y5V/Z/0.1μF/50V	CHD1040YF102
C475	CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104
	CHIP CERAMIC CAP.(1608) Y5V/Z/0.1μF/50V	CHD1040YF102
C476	ELECTROLYTIC CAP. 22μF/6.3V M H7 or	CEA22RENW025
	CAP ELECTROLYTIC 22μF/6.3V/M/H7 or	CA0K220ENE10
	ELECTROLYTIC CAP. 22μF/6.3V M H7	CE0KMAVSL220
C478	CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104
	CHIP CERAMIC CAP.(1608) Y5V/Z/0.1μF/50V	CHD1040YF102
C479	ELECTROLYTIC CAP. 10μF/16V/M/H7 or	CEC10RENW025
	CAP ELECTROLYTIC 10μF/16V/M/H7 or	CA1C100ENE10
	ELECTROLYTIC CAP. 10μF/16V M H7	CE1CMAVSL100
C480	ELECTROLYTIC CAP. 10μF/16V/M or	CEC10RENW016
	CAP ELECTROLYTIC 10μF/16V/M or	CA1C100ENE12
	ELECTROLYTIC CAP. 10μF/16V M	CE1CMASDL100
C481	ELECTROLYTIC CAP. 10μF/16V/M/H7 or	CEC10RENW025
	CAP ELECTROLYTIC 10μF/16V/M/H7 or	CA1C100ENE10
	ELECTROLYTIC CAP. 10μF/16V M H7	CE1CMAVSL100
C482	CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104
	CHIP CERAMIC CAP.(1608) Y5V/Z/0.1μF/50V	CHD1040YF102
C483	ELECTROLYTIC CAP. 4.7μF/25V/M/H7 or	CED4R7ENW025
	CAP ELECTROLYTIC 4.7μF/25V/M/H7 or	CA1E4R7ENE10
	ELECTROLYTIC CAP. 4.7μF/25V M H7	CE1EMAVSL4R7
C484	ELECTROLYTIC CAP. 4.7μF/25V/M/H7 or	CED4R7ENW025
	CAP ELECTROLYTIC 4.7μF/25V/M/H7 or	CA1E4R7ENE10
	ELECTROLYTIC CAP. 4.7μF/25V M H7	CE1EMAVSL4R7
C485	ELECTROLYTIC CAP. 10μF/16V/M/H7 or	CEC10RENW025
	CAP ELECTROLYTIC 10μF/16V/M/H7 or	CA1C100ENE10
	ELECTROLYTIC CAP. 10μF/16V M H7	CE1CMAVSL100
C486	CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104
	CHIP CERAMIC CAP.(1608) Y5V/Z/0.1μF/50V	CHD1040YF102
C487	ELECTROLYTIC CAP. 47μF/16V/M/H7 or	CEC47RENW025
	CAP ELECTROLYTIC 47μF/16V/M/H7 or	CA1C470ENE10
	ELECTROLYTIC CAP. 47μF/16V M H7	CE1CMAVSL470
C488	CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104
	CHIP CERAMIC CAP.(1608) Y5V/Z/0.1μF/50V	CHD1040YF102
C502	CHIP CERAMIC CAP.(1608) B K 0.022μF/50V or	CHD1JK30B223
	CHIP CERAMIC CAP.(1608) X7R/K/0.022μF/ 50V	CHD2230YF069
C505	CHIP CERAMIC CAP.(1608) B K 0.01μF/50V or	CHD1JK30B103
	CHIP CERAMIC CAP.(1608) X7R/K/0.01μF/50V	CHD1030YF069
C507	CHIP CERAMIC CAP.(1608) B K 1000pF/50V or	CHD1JK30B102
	CHIP CERAMIC CAP.(1608) X7R/K/1000pF/50V	CHD1020YF069
C509	CHIP CERAMIC CAP.(1608) B K 1000pF/50V or	CHD1JK30B102
	CHIP CERAMIC CAP.(1608) X7R/K/1000pF/50V	CHD1020YF069
C510	CHIP CERAMIC CAP.(1608) B K 4700pF/50V or	CHD1JK30B472
	CHIP CERAMIC CAP.(1608) X7R/K/4700pF/50V	CHD4720YF069
C511	CHIP CERAMIC CAP.(1608) CH J 100pF/50V or	CHD1JJ3CH101
	CHIP CERAMIC CAP. NP0/J/100pF/50V	CHD1010YF020
C512	CHIP CERAMIC CAP.(1608) B K 0.01μF/50V or	CHD1JK30B103
	CHIP CERAMIC CAP.(1608) X7R/K/0.01μF/50V	CHD1030YF069
C514	CHIP CERAMIC CAP. B K 330pF/50V or	CHD1JK30B331
	CAP CHIP 1608 X7R/K/330pF/50V	CHD3310YF069
C515	CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104
	CHIP CERAMIC CAP.(1608) Y5V/Z/0.1μF/50V	CHD1040YF102
C516	ELECTROLYTIC CAP. 22μF/6.3V M H7 or	CEA22RENW025
	CAP ELECTROLYTIC 22μF/6.3V/M/H7 or	CA0K220ENE10
	ELECTROLYTIC CAP. 22μF/6.3V M H7	CE0KMAVSL220
C517	CAP CERAMIC (AX) 0.022μF/25V/F/Z	CA1E223TU055
C518	ELECTROLYTIC CAP. 22μF/6.3V M H7 or	CEA22RENW025
	CAP ELECTROLYTIC 22μF/6.3V/M/H7 or	CA0K220ENE10
	ELECTROLYTIC CAP. 22μF/6.3V M H7	CE0KMAVSL220
C519	CHIP CERAMIC CAP. B K 560pF/50V or	CHD1JK30B561
	CHIP CERAMIC CAP. X7R/K/560pF/50V	CHD5610YF069
C521	ELECTROLYTIC CAP. 22μF/6.3V M H7 or	CEA22RENW025
	CAP ELECTROLYTIC 22μF/6.3V/M/H7 or	CA0K220ENE10
	ELECTROLYTIC CAP. 22μF/6.3V M H7	CE0KMAVSL220
C522	CHIP CERAMIC CAP.(1608) B K 0.01μF/50V or	CHD1JK30B103
	CHIP CERAMIC CAP.(1608) X7R/K/0.01μF/50V	CHD1030YF069
C524	CHIP CERAMIC CAP.(1608) B K 0.01μF/50V or	CHD1JK30B103
	CHIP CERAMIC CAP.(1608) X7R/K/0.01μF/50V	CHD1030YF069
C527	CHIP CERAMIC CAP.(1608) CH J 100pF/50V or	CHD1JJ3CH101
	CHIP CERAMIC CAP. NP0/J/100pF/50V	CHD1010YF020
C531	CHIP CERAMIC CAP.(1608) B K 0.047μF/50V or	CHD1JK30B473
	CHIP CERAMIC CAP.(1608) X7R/K/0.047μF/ 50V	CHD4730YF069
C532	CHIP CERAMIC CAP.(1608) B K 0.01μF/50V or	CHD1JK30B103
	CHIP CERAMIC CAP.(1608) X7R/K/0.01μF/50V	CHD1030YF069
C533	CHIP CERAMIC CAP.(1608) B K 0.047μF/50V or	CHD1JK30B473
	CHIP CERAMIC CAP.(1608) X7R/K/0.047μF/ 50V	CHD4730YF069
C535	CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104
	CHIP CERAMIC CAP.(1608) Y5V/Z/0.1μF/50V	CHD1040YF102
C536	CHIP CERAMIC CAP. B K 560pF/50V or	CHD1JK30B561
	CHIP CERAMIC CAP. X7R/K/560pF/50V	CHD5610YF069
C538	CHIP CERAMIC CAP. CH J 180pF/50V or	CHD1JJ3CH181
	CAP CHIP 1608 NP0/J/ 180pF/50V	CHD1810YF020
C539	CHIP CERAMIC CAP.(1608) B K 0.01μF/50V or	CHD1JK30B103
	CHIP CERAMIC CAP.(1608) X7R/K/0.01μF/50V	CHD1030YF069
C540	CHIP CERAMIC CAP.(1608) B K 4700pF/50V or	CHD1JK30B472
	CHIP CERAMIC CAP.(1608) X7R/K/4700pF/50V	CHD4720YF069
C541	CHIP CERAMIC CAP. CH J 18pF/50V or	CHD1JJ3CH180
	CAP CHIP 1608 NP0/J/18pF/50V	CHD1800YF020
C542	CHIP CERAMIC CAP. CH J 18pF/50V or	CHD1JJ3CH180
	CAP CHIP 1608 NP0/J/18pF/50V	CHD1800YF020
C543	CHIP CERAMIC CAP.(1608) CH J 22pF/50V or	CHD1JJ3CH220
	CHIP CERAMIC CAP.(1608) NP0/J/22pF/50V	CHD2200YF020
C544	CHIP CERAMIC CAP.(1608) CH J 22pF/50V or	CHD1JJ3CH220
	CHIP CERAMIC CAP.(1608) NP0/J/22pF/50V	CHD2200YF020
C545	CHIP CERAMIC CAP.(1608) CH J 22pF/50V or	CHD1JJ3CH220
	CHIP CERAMIC CAP.(1608) NP0/J/22pF/50V	CHD2200YF020
C546	CHIP CERAMIC CAP.(1608) CH J 22pF/50V or	CHD1JJ3CH220
	CHIP CERAMIC CAP.(1608) NP0/J/22pF/50V	CHD2200YF020
C547	CHIP CERAMIC CAP.(1608) B K 0.01μF/50V or	CHD1JK30B103
	CHIP CERAMIC CAP.(1608) X7R/K/0.01μF/50V	CHD1030YF069
C548	CHIP CERAMIC CAP.(1608) B K 0.1μF/50V or	CHD1JK30B104
	CHIP CERAMIC CAP.(1608) X7R/K/0.1μF/50V	CHD1040YF069
C549	ELECTROLYTIC CAP. 1μF/50V/M/H7 or	CEF1R0ENW025
	CAP ELECTROLYTIC 1μF/50V/M/H7 or	CA1J1R0ENE10
	ELECTROLYTIC CAP. 1μF/50V M H7	CE1JMAVSL1R0
C553	ELECTROLYTIC CAP. 22μF/10V/M/H7 or	CEB22RENW025
	CAP ELECTROLYTIC 22μF/10V/M/H7 or	CA1A220ENE10
	ELECTROLYTIC CAP. 22μF/10V M H7	CE1AMAVSL220
C554	ELECTROLYTIC CAP. 100μF/6.3V/M/H7 or	CEA101ENW025
	CAP ELECTROLYTIC 100μF/6.3V/M/H7 or	CA0K101ENE10
	ELECTROLYTIC CAP. 100μF/6.3V H7	CE0KMAVSL101
C555	CHIP CERAMIC CAP.(1608) B K 0.1μF/25V or	CHD1EK30B104
	CHIP CERAMIC CAP.(1608) X7R/K/ 0.1μF/25V	CHD1040YF066
C556	CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104
	CHIP CERAMIC CAP.(1608) Y5V/Z/0.1μF/50V	CHD1040YF102
C557	CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104
	CHIP CERAMIC CAP.(1608) Y5V/Z/0.1μF/50V	CHD1040YF102
C560	CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104
	CHIP CERAMIC CAP.(1608) Y5V/Z/0.1μF/50V	CHD1040YF102
C611	ELECTROLYTIC CAP. 22μF/50V/M/H7 or	CEF22RENW024
	CAP ELECTROLYTIC 22μF/50V/M/H7 or	CA1J220ENE09
	ELECTROLYTIC CAP. 22μF/50V M H7	CE1JMASSL220
C612	CHIP CERAMIC CAP.(1608) B K 4700pF/50V or	CHD1JK30B472
	CHIP CERAMIC CAP.(1608) X7R/K/4700pF/50V	CHD4720YF069

Ref. No.	Description	Part No.
C614	CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104
	CHIP CERAMIC CAP.(1608) Y5V/Z/0.1μF/50V	CHD1040YF102
C615	ELECTROLYTIC CAP. 100μF/6.3V/M/H7 or	CEA101ENW025
	CAP ELECTROLYTIC 100μF/6.3V/M/H7 or	CA0K101ENE10
	ELECTROLYTIC CAP. 100μF/6.3V H7	CE0KMAVSL101
C616	CHIP CERAMIC CAP.(1608) B K 1000pF/50V or	CHD1JK30B102
	CHIP CERAMIC CAP.(1608) X7R/K/1000pF/50V	CHD1020YF069
C700	CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104
	CHIP CERAMIC CAP.(1608) Y5V/Z/0.1μF/50V	CHD1040YF102
C701	ELECTROLYTIC CAP. 4.7μF/25V/M/H7 or	CED4R7ENW025
	CAP ELECTROLYTIC 4.7μF/25V/M/H7 or	CA1E4R7ENE10
	ELECTROLYTIC CAP. 4.7μF/25V M H7	CE1EMAVSL4R7
C702	CHIP CERAMIC CAP. B K 0.018μF/50V or	CHD1JK30B183
	CAP CHIP 1608 B K 0.018μF/25V or	CHD1EK30B183
	CAP CHIP 1608 X7R/K/ 0.018μF/50V	CHD1830YF069
C703	CHIP CERAMIC CAP.(1608) B K 0.01μF/50V or	CHD1JK30B103
	CHIP CERAMIC CAP.(1608) X7R/K/0.01μF/50V	CHD1030YF069
C704	ELECTROLYTIC CAP. 47μF/6.3V/M/H7 or	CEA47RENW025
	CAP ELECTROLYTIC 47μF/6.3V/M/H7 or	CA0K470ENE10
	ELECTROLYTIC CAP. 47μF/6.3V M H7	CE0KMAVSL470
C705	ELECTROLYTIC CAP. 1μF/50V M H7 NP or	CEF1R0ENW050
	CAP ELECTROLYTIC 1μF/50V/M/H7/NP or	CA1J1R0ENE07
	ELECTROLYTIC CAP. 1μF/50V M H7 NP or	CP1JMAVSB1R0
	ELECTROLYTIC CAP. 1μF/50V M H7 NP	CET010KSN011
C706	ELECTROLYTIC CAP. 1μF/50V/M/H7 or	CEF1R0ENW025
	CAP ELECTROLYTIC 1μF/50V/M/H7 or	CA1J1R0ENE10
	ELECTROLYTIC CAP. 1μF/50V M H7	CE1JMAVSL1R0
C1511	ELECTROLYTIC CAP. 330μF/6.3V/M or	CEA331ENW016
	CAP ELECTROLYTIC 330μF/6.3V/M or	CA0K331ENE12
	ELECTROLYTIC CAP. 330μF/6.3V M	CE0KMASDL331
C1529	CHIP CERAMIC CAP.(1608) B K 3300pF/50V or	CHD1JK30B332
	CHIP CERAMIC CAP.(1608) X7R/K/3300pF/50V	CHD3320YF069
C1530	CHIP CERAMIC CAP.(1608) B K 3300pF/50V or	CHD1JK30B332
	CHIP CERAMIC CAP.(1608) X7R/K/3300pF/50V	CHD3320YF069
C1531	ELECTROLYTIC CAP. 10μF/16V/M or	CEC10RENW016
	CAP ELECTROLYTIC 10μF/16V/M or	CA1C100ENE12
	ELECTROLYTIC CAP. 10μF/16V M	CE1CMASDL100
C1537	ELECTROLYTIC CAP. 220μF/25V/M or	CED221ENW016
	CAP ELECTROLYTIC 220μF/25V/M or	CA1E221ENE12
	ELECTROLYTIC CAP. 220μF/25V M	CE1EMASDL221
C1540	CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104
	CHIP CERAMIC CAP.(1608) Y5V/Z/0.1μF/50V	CHD1040YF102
C1541	CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104
	CHIP CERAMIC CAP.(1608) Y5V/Z/0.1μF/50V	CHD1040YF102
C1542	CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104
	CHIP CERAMIC CAP.(1608) Y5V/Z/0.1μF/50V	CHD1040YF102
C1545	ELECTROLYTIC CAP. 10μF/16V/M or	CEC10RENW016
	CAP ELECTROLYTIC 10μF/16V/M or	CA1C100ENE12
	ELECTROLYTIC CAP. 10μF/16V M	CE1CMASDL100
C1546	CHIP CERAMIC CAP.(1608) CH J 33pF/50V or	CHD1JJ3CH330
	CHIP CERAMIC CAP.(1608) NP0/J/33pF/50V	CHD3300YF020
C1547	CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104
	CHIP CERAMIC CAP.(1608) Y5V/Z/0.1μF/50V	CHD1040YF102
C1550	ELECTROLYTIC CAP. 10μF/16V/M or	CEC10RENW016
	CAP ELECTROLYTIC 10μF/16V/M or	CA1C100ENE12
	ELECTROLYTIC CAP. 10μF/16V M	CE1CMASDL100
C1551	ELECTROLYTIC CAP. 10μF/16V/M or	CEC10RENW016
	CAP ELECTROLYTIC 10μF/16V/M or	CA1C100ENE12
	ELECTROLYTIC CAP. 10μF/16V M	CE1CMASDL100
C1555	ELECTROLYTIC CAP. 47μF/16V/M or	CEC47RENW016
	CAP ELECTROLYTIC 47μF/16V/M or	CA1C470ENE12
	ELECTROLYTIC CAP. 47μF/16V M	CE1CMASDL470
C1558	ELECTROLYTIC CAP. 470μF/6.3V/M or	CEA471ENW016
	CAP ELECTROLYTIC 470μF/6.3V/M or	CA0K471ENE12
	ELECTROLYTIC CAP. 470μF/6.3V M	CE0KMASDL471
C1560	ELECTROLYTIC CAP. 100μF/6.3V/M/NP or	CEA101ENW044
	CAP ELECTROLYTIC 100μF/6.3V/M/NP or	CA0K101ENE04
	ELECTROLYTIC CAP. 100μF/6.3V M NP or	CP0KMASNC101
	ELECTROLYTIC CAP. 100μF/6.3V M NP	CEG101KSN012
C1562	WIRE CP STP-S-0.60 or	XZ40F0REN002
	WIRE CP CP0.56	XZ40F0XRC001
C1563	WIRE CP STP-S-0.60 or	XZ40F0REN002
	WIRE CP CP0.56	XZ40F0XRC001
C1564	WIRE CP STP-S-0.60 or	XZ40F0REN002
	WIRE CP CP0.56	XZ40F0XRC001
C1567	ELECTROLYTIC CAP. 47μF/16V/M or	CEC47RENW016
	CAP ELECTROLYTIC 47μF/16V/M or	CA1C470ENE12
	ELECTROLYTIC CAP. 47μF/16V M	CE1CMASDL470
C1569	ELECTROLYTIC CAP. 47μF/25V/M or	CED47RENW016
	CAP ELECTROLYTIC 47μF/25V/M or	CA1E470ENE12
	ELECTROLYTIC CAP. 47μF/25V M	CE1EMASDL470
C1570	ELECTROLYTIC CAP. 47μF/6.3V/M or	CEA47RENW016
	CAP ELECTROLYTIC 47μF/6.3V/M or	CA0K470ENE12
	ELECTROLYTIC CAP. 47μF/6.3V M	CE0KMASDL470
C1571	CHIP CERAMIC CAP.(1608) CH J 100pF/50V or	CHD1JJ3CH101
	CHIP CERAMIC CAP. NP0/J/100pF/50V	CHD1010YF020
C1572	CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104
	CHIP CERAMIC CAP.(1608) Y5V/Z/0.1μF/50V	CHD1040YF102
C1573	ELECTROLYTIC CAP. 100μF/6.3V/M or	CEA101ENW016
	CAP ELECTROLYTIC 100μF/6.3V/M or	CA0K101ENE12
	ELECTROLYTIC CAP. 100μF/6.3V M	CE0KMASDL101
C1575	ELECTROLYTIC CAP. 10μF/16V/M or	CEC10RENW016
	CAP ELECTROLYTIC 10μF/16V/M or	CA1C100ENE12
	ELECTROLYTIC CAP. 10μF/16V M	CE1CMASDL100
C1576	ELECTROLYTIC CAP. 10μF/16V/M or	CEC10RENW016
	CAP ELECTROLYTIC 10μF/16V/M or	CA1C100ENE12
	ELECTROLYTIC CAP. 10μF/16V M	CE1CMASDL100
C1577	CHIP CERAMIC CAP. B K 1500pF/50V or	CHD1JK30B152
	CAP CHIP 1608 X7R/K/1500pF/50V	CHD1520YF069
C1578	CHIP CERAMIC CAP.(1608) CH J 47pF/50V or	CHD1JJ3CH470
	CAP CHIP 1608 NP0/J/47pF/50V	CHD4700YF020
C1579	CHIP CERAMIC CAP. B K 1500pF/50V or	CHD1JK30B152
	CAP CHIP 1608 X7R/K/1500pF/50V	CHD1520YF069
C1580	CHIP CERAMIC CAP.(1608) CH J 47pF/50V or	CHD1JJ3CH470
	CAP CHIP 1608 NP0/J/47pF/50V	CHD4700YF020
C1581	ELECTROLYTIC CAP. 10μF/16V/M or	CEC10RENW016
	CAP ELECTROLYTIC 10μF/16V/M or	CA1C100ENE12
	ELECTROLYTIC CAP. 10μF/16V M	CE1CMASDL100
C1582	CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104
	CHIP CERAMIC CAP.(1608) Y5V/Z/0.1μF/50V	CHD1040YF102
C1583	ELECTROLYTIC CAP. 10μF/16V/M or	CEC10RENW016
	CAP ELECTROLYTIC 10μF/16V/M or	CA1C100ENE12
	ELECTROLYTIC CAP. 10μF/16V M	CE1CMASDL100
C1584	ELECTROLYTIC CAP. 0.47μF/50V/M/H7 or	CEFR47ENW025
	CAP ELECTROLYTIC 0.47μF/50V/M/H7 or	CA1JR47ENE10
	ELECTROLYTIC CAP. 0.47μF/50V M H7	CE1JMAVSLR47
C1585	ELECTROLYTIC CAP. 0.47μF/50V M or	CEFR47ENW016
	CAP ELECTROLYTIC 0.47μF/50V/M or	CA1JR47ENE12
	ELECTROLYTIC CAP. 0.47μF/50V M	CE1JMASDLR47
C1586	ELECTROLYTIC CAP. 0.47μF/50V M or	CEFR47ENW016
	CAP ELECTROLYTIC 0.47μF/50V/M or	CA1JR47ENE12
	ELECTROLYTIC CAP. 0.47μF/50V M	CE1JMASDLR47
C1587	ELECTROLYTIC CAP. 0.47μF/50V M or	CEFR47ENW016
	CAP ELECTROLYTIC 0.47μF/50V/M or	CA1JR47ENE12
	ELECTROLYTIC CAP. 0.47μF/50V M	CE1JMASDLR47
C1588	ELECTROLYTIC CAP. 0.47μF/50V M or	CEFR47ENW016
	CAP ELECTROLYTIC 0.47μF/50V/M or	CA1JR47ENE12
	ELECTROLYTIC CAP. 0.47μF/50V M	CE1JMASDLR47
C1589	ELECTROLYTIC CAP. 0.47μF/50V M or	CEFR47ENW016
	CAP ELECTROLYTIC 0.47μF/50V/M or	CA1JR47ENE12
	ELECTROLYTIC CAP. 0.47μF/50V M	CE1JMASDLR47
C1591	CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104
	CHIP CERAMIC CAP.(1608) Y5V/Z/0.1μF/50V	CHD1040YF102
C1592	ELECTROLYTIC CAP. 4.7μF/25V/M or	CED4R7ENW016

Ref. No.	Description	Part No.
	CAP ELECTROLYTIC 4.7μF/25V/M or	CA1E4R7ENE12
	ELECTROLYTIC CAP. 4.7μF/25V M	CE1EMASDL4R7
C1593	ELECTROLYTIC CAP. 0.47μF/50V M or	CEFR47ENW016
	CAP ELECTROLYTIC 0.47μF/50V/M or	CA1JR47ENE12
	ELECTROLYTIC CAP. 0.47μF/50V M	CE1JMASDLR47
C1595	ELECTROLYTIC CAP. 1μF/50V/M or	CEF1R0ENW016
	CAP ELECTROLYTIC 1μF/50V/M or	CA1J1R0ENE12
	ELECTROLYTIC CAP. 1μF/50V M	CE1JMASDL1R0
C1596	ELECTROLYTIC CAP. 0.47μF/50V M or	CEFR47ENW016
	CAP ELECTROLYTIC 0.47μF/50V/M or	CA1JR47ENE12
	ELECTROLYTIC CAP. 0.47μF/50V M	CE1JMASDLR47
C1597	ELECTROLYTIC CAP. 1μF/50V/M or	CEF1R0ENW016
	CAP ELECTROLYTIC 1μF/50V/M or	CA1J1R0ENE12
	ELECTROLYTIC CAP. 1μF/50V M	CE1JMASDL1R0
C1598	ELECTROLYTIC CAP. 47μF/16V/M or	CEC47RENW016
	CAP ELECTROLYTIC 47μF/16V/M or	CA1C470ENE12
	ELECTROLYTIC CAP. 47μF/16V M	CE1CMASDL470
C1599	CAP CERAMIC (AX) 0.1μF/50V/F/Z	CA1J104TU062
C1600	ELECTROLYTIC CAP. 4.7μF/25V/M or	CED4R7ENW016
	CAP ELECTROLYTIC 4.7μF/25V/M or	CA1E4R7ENE12
	ELECTROLYTIC CAP. 4.7μF/25V M	CE1EMASDL4R7
C1601	ELECTROLYTIC CAP. 4.7μF/25V/M or	CED4R7ENW016
	CAP ELECTROLYTIC 4.7μF/25V/M or	CA1E4R7ENE12
	ELECTROLYTIC CAP. 4.7μF/25V M	CE1EMASDL4R7
C1602	CHIP CERAMIC CAP.(1608) CH J 68pF/50V or	CHD1JJ3CH680
	CAP CHIP 1608 NP0/J/68pF/50V	CHD6800YF020
C1603	ELECTROLYTIC CAP. 4.7μF/25V/M or	CED4R7ENW016
	CAP ELECTROLYTIC 4.7μF/25V/M or	CA1E4R7ENE12
	ELECTROLYTIC CAP. 4.7μF/25V M	CE1EMASDL4R7
C1604	ELECTROLYTIC CAP. 1μF/50V/M or	CEF1R0ENW016
	CAP ELECTROLYTIC 1μF/50V/M or	CA1J1R0ENE12
	ELECTROLYTIC CAP. 1μF/50V M	CE1JMASDL1R0
C1606	ELECTROLYTIC CAP. 4.7μF/25V/M or	CED4R7ENW016
	CAP ELECTROLYTIC 4.7μF/25V/M or	CA1E4R7ENE12
	ELECTROLYTIC CAP. 4.7μF/25V M	CE1EMASDL4R7
C1607	ELECTROLYTIC CAP. 4.7μF/25V/M or	CED4R7ENW016
	CAP ELECTROLYTIC 4.7μF/25V/M or	CA1E4R7ENE12
	ELECTROLYTIC CAP. 4.7μF/25V M	CE1EMASDL4R7
C1608	ELECTROLYTIC CAP. 4.7μF/25V/M or	CED4R7ENW016
	CAP ELECTROLYTIC 4.7μF/25V/M or	CA1E4R7ENE12
	ELECTROLYTIC CAP. 4.7μF/25V M	CE1EMASDL4R7
C1609	ELECTROLYTIC CAP. 4.7μF/25V/M or	CED4R7ENW016
	CAP ELECTROLYTIC 4.7μF/25V/M or	CA1E4R7ENE12
	ELECTROLYTIC CAP. 4.7μF/25V M	CE1EMASDL4R7
C1610	ELECTROLYTIC CAP. 4.7μF/25V/M or	CED4R7ENW016
	CAP ELECTROLYTIC 4.7μF/25V/M or	CA1E4R7ENE12
	ELECTROLYTIC CAP. 4.7μF/25V M	CE1EMASDL4R7
C1611	ELECTROLYTIC CAP. 47μF/6.3V/M or	CEA47RENW016
	CAP ELECTROLYTIC 47μF/6.3V/M or	CA0K470ENE12
	ELECTROLYTIC CAP. 47μF/6.3V M	CE0KMASDL470
C1612	WIRE CP STP-S-0.60 or	XZ40F0REN002
	WIRE CP CP0.56	XZ40F0XRC001
C1614	ELECTROLYTIC CAP. 1μF/50V/M or	CEF1R0ENW016
	CAP ELECTROLYTIC 1μF/50V/M or	CA1J1R0ENE12
	ELECTROLYTIC CAP. 1μF/50V M	CE1JMASDL1R0
C1616	CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104
	CHIP CERAMIC CAP.(1608) Y5V/Z/0.1μF/50V	CHD1040YF102
C1617	ELECTROLYTIC CAP. 1μF/50V/M or	CEF1R0ENW016
	CAP ELECTROLYTIC 1μF/50V/M or	CA1J1R0ENE12
	ELECTROLYTIC CAP. 1μF/50V M	CE1JMASDL1R0
C1618	CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104
	CHIP CERAMIC CAP.(1608) Y5V/Z/0.1μF/50V	CHD1040YF102
C1619	CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104
	CHIP CERAMIC CAP.(1608) Y5V/Z/0.1μF/50V	CHD1040YF102
C1620	CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104
	CHIP CERAMIC CAP.(1608) Y5V/Z/0.1μF/50V	CHD1040YF102
C1621	ELECTROLYTIC CAP. 10μF/16V/M or	CEC10RENW016

Ref. No.	Description	Part No.
	CAP ELECTROLYTIC 10μF/16V/M or	CA1C100ENE12
	ELECTROLYTIC CAP. 10μF/16V M	CE1CMASDL100
C1622	ELECTROLYTIC CAP. 1μF/50V/M or	CEF1R0ENW016
	CAP ELECTROLYTIC 1μF/50V/M or	CA1J1R0ENE12
	ELECTROLYTIC CAP. 1μF/50V M	CE1JMASDL1R0
C1623	CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104
	CHIP CERAMIC CAP.(1608) Y5V/Z/0.1μF/50V	CHD1040YF102
C1624	ELECTROLYTIC CAP. 10μF/16V/M or	CEC10RENW016
	CAP ELECTROLYTIC 10μF/16V/M or	CA1C100ENE12
	ELECTROLYTIC CAP. 10μF/16V M	CE1CMASDL100
C1625	ELECTROLYTIC CAP. 1μF/50V/M or	CEF1R0ENW016
	CAP ELECTROLYTIC 1μF/50V/M or	CA1J1R0ENE12
	ELECTROLYTIC CAP. 1μF/50V M	CE1JMASDL1R0
C1626	ELECTROLYTIC CAP. 1μF/50V/M or	CEF1R0ENW016
	CAP ELECTROLYTIC 1μF/50V/M or	CA1J1R0ENE12
	ELECTROLYTIC CAP. 1μF/50V M	CE1JMASDL1R0
C1627	ELECTROLYTIC CAP. 1μF/50V/M or	CEF1R0ENW016
	CAP ELECTROLYTIC 1μF/50V/M or	CA1J1R0ENE12
	ELECTROLYTIC CAP. 1μF/50V M	CE1JMASDL1R0
C1628	ELECTROLYTIC CAP. 1μF/50V/M or	CEF1R0ENW016
	CAP ELECTROLYTIC 1μF/50V/M or	CA1J1R0ENE12
	ELECTROLYTIC CAP. 1μF/50V M	CE1JMASDL1R0
C1629	CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104
	CHIP CERAMIC CAP.(1608) Y5V/Z/0.1μF/50V	CHD1040YF102
C1630	CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104
	CHIP CERAMIC CAP.(1608) Y5V/Z/0.1μF/50V	CHD1040YF102
C1631	ELECTROLYTIC CAP. 47μF/6.3V/M or	CEA47RENW016
	CAP ELECTROLYTIC 47μF/6.3V/M or	CA0K470ENE12
	ELECTROLYTIC CAP. 47μF/6.3V M	CE0KMASDL470
C1632	CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104
	CHIP CERAMIC CAP.(1608) Y5V/Z/0.1μF/50V	CHD1040YF102
C1633	ELECTROLYTIC CAP. 47μF/6.3V/M or	CEA47RENW016
	CAP ELECTROLYTIC 47μF/6.3V/M or	CA0K470ENE12
	ELECTROLYTIC CAP. 47μF/6.3V M	CE0KMASDL470
C1634	ELECTROLYTIC CAP. 470μF/6.3V/M or	CEA471ENW016
	CAP ELECTROLYTIC 470μF/6.3V/M or	CA0K471ENE12
	ELECTROLYTIC CAP. 470μF/6.3V M	CE0KMASDL471
C1635	ELECTROLYTIC CAP. 1μF/50V/M or	CEF1R0ENW016
	CAP ELECTROLYTIC 1μF/50V/M or	CA1J1R0ENE12
	ELECTROLYTIC CAP. 1μF/50V M	CE1JMASDL1R0
C1636	ELECTROLYTIC CAP. 470μF/6.3V/M or	CEA471ENW016
	CAP ELECTROLYTIC 470μF/6.3V/M or	CA0K471ENE12
	ELECTROLYTIC CAP. 470μF/6.3V M	CE0KMASDL471
C1637	ELECTROLYTIC CAP. 1μF/50V/M or	CEF1R0ENW016
	CAP ELECTROLYTIC 1μF/50V/M or	CA1J1R0ENE12
	ELECTROLYTIC CAP. 1μF/50V M	CE1JMASDL1R0
C1638	ELECTROLYTIC CAP. 1μF/50V/M or	CEF1R0ENW016
	CAP ELECTROLYTIC 1μF/50V/M or	CA1J1R0ENE12
	ELECTROLYTIC CAP. 1μF/50V M	CE1JMASDL1R0
C1639	ELECTROLYTIC CAP. 470μF/6.3V/M or	CEA471ENW016
	CAP ELECTROLYTIC 470μF/6.3V/M or	CA0K471ENE12
	ELECTROLYTIC CAP. 470μF/6.3V M	CE0KMASDL471
C1640	ELECTROLYTIC CAP. 470μF/6.3V/M or	CEA471ENW016
	CAP ELECTROLYTIC 470μF/6.3V/M or	CA0K471ENE12
	ELECTROLYTIC CAP. 470μF/6.3V M	CE0KMASDL471
C1641	ELECTROLYTIC CAP. 470μF/6.3V/M or	CEA471ENW016
	CAP ELECTROLYTIC 470μF/6.3V/M or	CA0K471ENE12
	ELECTROLYTIC CAP. 470μF/6.3V M	CE0KMASDL471
C1642	ELECTROLYTIC CAP. 470μF/6.3V/M or	CEA471ENW016
	CAP ELECTROLYTIC 470μF/6.3V/M or	CA0K471ENE12
	ELECTROLYTIC CAP. 470μF/6.3V M	CE0KMASDL471
C1643	ELECTROLYTIC CAP. 470μF/6.3V/M or	CEA471ENW016
	CAP ELECTROLYTIC 470μF/6.3V/M or	CA0K471ENE12
	ELECTROLYTIC CAP. 470μF/6.3V M	CE0KMASDL471
C1644	CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104
	CHIP CERAMIC CAP.(1608) Y5V/Z/0.1μF/50V	CHD1040YF102
C1645	ELECTROLYTIC CAP. 47μF/6.3V/M or	CEA47RENW016

Ref. No.	Description	Part No.
	CAP ELECTROLYTIC 47μF/6.3V/M or	CA0K470ENE12
	ELECTROLYTIC CAP. 47μF/6.3V M	CE0KMASDL470
C1646	CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104
	CHIP CERAMIC CAP.(1608) Y5V/Z/0.1μF/50V	CHD1040YF102
C1650	CHIP CERAMIC CAP.(1608) B K 0.01μF/50V or	CHD1JK30B103
	CHIP CERAMIC CAP.(1608) X7R/K/0.01μF/50V	CHD1030YF069
C1657	CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104
	CHIP CERAMIC CAP.(1608) Y5V/Z/0.1μF/50V	CHD1040YF102
C1658	CHIP CERAMIC CAP.(1608) B K 1000pF/50V or	CHD1JK30B102
	CHIP CERAMIC CAP.(1608) X7R/K/1000pF/50V	CHD1020YF069
C1659	ELECTROLYTIC CAP. 1μF/50V/M or	CEF1R0ENW016
	CAP ELECTROLYTIC 1μF/50V/M or	CA1J1R0ENE12
	ELECTROLYTIC CAP. 1μF/50V M	CE1JMASDL1R0
C1660	CHIP CERAMIC CAP. F Z 0.01μF/50V or	CHD1JZ30F103
	CHIP CERAMIC CAP.(1608) Y5V/Z/0.01μF/50V	CHD1030YF102
C1663	CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104
	CHIP CERAMIC CAP.(1608) Y5V/Z/0.1μF/50V	CHD1040YF102
C1665	CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104
	CHIP CERAMIC CAP.(1608) Y5V/Z/0.1μF/50V	CHD1040YF102
C1668	ELECTROLYTIC CAP. 47μF/6.3V/M or	CEA47RENW016
	CAP ELECTROLYTIC 47μF/6.3V/M or	CA0K470ENE12
	ELECTROLYTIC CAP. 47μF/6.3V M	CE0KMASDL470
C1673	CHIP CERAMIC CAP. B K 2200pF/50V or	CHD1JK30B222
	CHIP CERAMIC CAP.(1608) X7R/K/2200pF/50V	CHD2220YF069
C1674	CHIP CERAMIC CAP. B K 2200pF/50V or	CHD1JK30B222
	CHIP CERAMIC CAP.(1608) X7R/K/2200pF/50V	CHD2220YF069
C1675	CHIP CERAMIC CAP.(1608) B K 1000pF/50V or	CHD1JK30B102
	CHIP CERAMIC CAP.(1608) X7R/K/1000pF/50V	CHD1020YF069
C1676	ELECTROLYTIC CAP. 1μF/50V/M or	CEF1R0ENW016
	CAP ELECTROLYTIC 1μF/50V/M or	CA1J1R0ENE12
	ELECTROLYTIC CAP. 1μF/50V M	CE1JMASDL1R0
C1677	CHIP CERAMIC CAP.(1608) B K 1000pF/50V or	CHD1JK30B102
	CHIP CERAMIC CAP.(1608) X7R/K/1000pF/50V	CHD1020YF069
C1678	CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104
	CHIP CERAMIC CAP.(1608) Y5V/Z/0.1μF/50V	CHD1040YF102
C1681	ELECTROLYTIC CAP. 1μF/50V/M or	CEF1R0ENW016
	CAP ELECTROLYTIC 1μF/50V/M or	CA1J1R0ENE12
	ELECTROLYTIC CAP. 1μF/50V M	CE1JMASDL1R0
C1682	CHIP CERAMIC CAP. F Z 0.01μF/50V or	CHD1JZ30F103
	CHIP CERAMIC CAP.(1608) Y5V/Z/0.01μF/50V	CHD1030YF102
C1689	ELECTROLYTIC CAP. 0.33μF/50V M or	CEFR33ENW016
	CAP ELECTROLYTIC 0.33μF/50V/M or	CA1JR33ENE12
	ELECTROLYTIC CAP. 0.33μF/50V M	CE1JMASDLR33
C1692	ELECTROLYTIC CAP. 100μF/6.3V/M or	CEA101ENW016
	CAP ELECTROLYTIC 100μF/6.3V/M or	CA0K101ENE12
	ELECTROLYTIC CAP. 100μF/6.3V M	CE0KMASDL101
C1694	ELECTROLYTIC CAP. 100μF/16V/M or	CEC101ENW016
	CAP ELECTROLYTIC 100μF/16V/M or	CA1C101ENE12
	ELECTROLYTIC CAP. 100μF/16V M	CE1CMASDL101
C1695	ELECTROLYTIC CAP. 47μF/16V/M or	CEC47RENW016
	CAP ELECTROLYTIC 47μF/16V/M or	CA1C470ENE12
	ELECTROLYTIC CAP. 47μF/16V M	CE1CMASDL470
C1696	CHIP CERAMIC CAP.(1608) CH J 68pF/50V or	CHD1JJ3CH680
	CAP CHIP 1608 NP0/J/68pF/50V	CHD6800YF020
C1697	CHIP CERAMIC CAP.(1608) CH J 68pF/50V or	CHD1JJ3CH680
	CAP CHIP 1608 NP0/J/68pF/50V	CHD6800YF020
C1699	CHIP CERAMIC CAP.(1608) CH J 33pF/50V or	CHD1JJ3CH330
	CHIP CERAMIC CAP.(1608) NP0/J/33pF/50V	CHD3300YF020
C1702	CHIP CERAMIC CAP.(1608) CH J 68pF/50V or	CHD1JJ3CH680
	CAP CHIP 1608 NP0/J/68pF/50V	CHD6800YF020
C1706	CHIP CERAMIC CAP.(1608) B K 0.1μF/50V or	CHD1JK30B104
	CHIP CERAMIC CAP.(1608) X7R/K/0.1μF/50V	CHD1040YF069
C1708	CHIP CERAMIC CAP. F Z 0.01μF/50V or	CHD1JZ30F103
	CHIP CERAMIC CAP.(1608) Y5V/Z/0.01μF/50V	CHD1030YF102
C1709	CHIP CERAMIC CAP. F Z 0.01μF/50V or	CHD1JZ30F103
	CHIP CERAMIC CAP.(1608) Y5V/Z/0.01μF/50V	CHD1030YF102
C1800	ELECTROLYTIC CAP. 0.47μF/50V M or	CEFR47ENW016

Ref. No.	Description	Part No.
	CAP ELECTROLYTIC 0.47μF/50V/M or	CA1JR47ENE12
	ELECTROLYTIC CAP. 0.47μF/50V M	CE1JMASDLR47
C1801	ELECTROLYTIC CAP. 0.47μF/50V M or	CEFR47ENW016
	CAP ELECTROLYTIC 0.47μF/50V/M or	CA1JR47ENE12
	ELECTROLYTIC CAP. 0.47μF/50V M	CE1JMASDLR47
C1802	ELECTROLYTIC CAP. 1μF/50V/M or	CEF1R0ENW016
	CAP ELECTROLYTIC 1μF/50V/M or	CA1J1R0ENE12
	ELECTROLYTIC CAP. 1μF/50V M	CE1JMASDL1R0
C1803	CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104
	CHIP CERAMIC CAP.(1608) Y5V/Z/0.1μF/50V	CHD1040YF102
C1805	CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104
	CHIP CERAMIC CAP.(1608) Y5V/Z/0.1μF/50V	CHD1040YF102
C1806	ELECTROLYTIC CAP. 1000μF/6.3V/M or	CEA102ENW016
	CAP ELECTROLYTIC 1000μF/6.3V/M or	CA0K102ENE12
	ELECTROLYTIC CAP. 1000μF/6.3V M	CE0KMASDL102
C1811	CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104
	CHIP CERAMIC CAP.(1608) Y5V/Z/0.1μF/50V	CHD1040YF102
C1814	ELECTROLYTIC CAP. 100μF/6.3V/M or	CEA101ENW016
	CAP ELECTROLYTIC 100μF/6.3V/M or	CA0K101ENE12
	ELECTROLYTIC CAP. 100μF/6.3V M	CE0KMASDL101
C1815	ELECTROLYTIC CAP. 100μF/6.3V/M or	CEA101ENW016
	CAP ELECTROLYTIC 100μF/6.3V/M or	CA0K101ENE12
	ELECTROLYTIC CAP. 100μF/6.3V M	CE0KMASDL101
C1816	CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104
	CHIP CERAMIC CAP.(1608) Y5V/Z/0.1μF/50V	CHD1040YF102
C1822	ELECTROLYTIC CAP. 47μF/50V/M or	CEF47RENW016
	CAP ELECTROLYTIC 47μF/50V/M or	CA1J470ENE12
	ELECTROLYTIC CAP. 47μF/50V M	CE1JMASDL470
C1826	ELECTROLYTIC CAP. 22μF/50V/M or	CEF22RENW016
	CAP ELECTROLYTIC 22μF/50V/M or	CA1J220ENE12
	ELECTROLYTIC CAP. 22μF/50V M	CE1JMASDL220
C1901	CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104
	CHIP CERAMIC CAP.(1608) Y5V/Z/0.1μF/50V	CHD1040YF102
C1904	CHIP CERAMIC CAP. CH J 56pF/50V or	CHD1JJ3CH560
	CAP CHIP 1608 NP0/J/56pF/50V	CHD5600YF020
C1905	CHIP CERAMIC CAP.(1608) CH J 22pF/50V or	CHD1JJ3CH220
	CHIP CERAMIC CAP.(1608) NP0/J/22pF/50V	CHD2200YF020
C1906	CHIP CERAMIC CAP. CH J 56pF/50V or	CHD1JJ3CH560
	CAP CHIP 1608 NP0/J/56pF/50V	CHD5600YF020
C1907	CHIP CERAMIC CAP. CH C 3pF/50V or	CHD1JC3CH3R0
	CHIP CERAMIC CAP. CJ C 3pF/50V or	CHD1JC3CJ3R0
	CAP CHIP 1608 NP0/C/3pF/50V	CHD3R00YF016
C1908	CHIP CERAMIC CAP. CH C 3pF/50V or	CHD1JC3CH3R0
	CHIP CERAMIC CAP. CJ C 3pF/50V or	CHD1JC3CJ3R0
	CAP CHIP 1608 NP0/C/3pF/50V	CHD3R00YF016
C1911	CHIP CERAMIC CAP. F Z 0.01μF/50V or	CHD1JZ30F103
	CHIP CERAMIC CAP.(1608) Y5V/Z/0.01μF/50V	CHD1030YF102
C1912	ELECTROLYTIC CAP. 10μF/16V/M or	CEC10RENW016
	CAP ELECTROLYTIC 10μF/16V/M or	CA1C100ENE12
	ELECTROLYTIC CAP. 10μF/16V M	CE1CMASDL100
C1913	CHIP CERAMIC CAP.(1608) B K 0.01μF/50V or	CHD1JK30B103
	CHIP CERAMIC CAP.(1608) X7R/K/0.01μF/50V	CHD1030YF069
C1914	CHIP CERAMIC CAP.(1608) B K 0.01μF/50V or	CHD1JK30B103
	CHIP CERAMIC CAP.(1608) X7R/K/0.01μF/50V	CHD1030YF069
C1915	ELECTROLYTIC CAP. 10μF/16V/M or	CEC10RENW016
	CAP ELECTROLYTIC 10μF/16V/M or	CA1C100ENE12
	ELECTROLYTIC CAP. 10μF/16V M	CE1CMASDL100
C1916	ELECTROLYTIC CAP. 10μF/16V/M or	CEC10RENW016
	CAP ELECTROLYTIC 10μF/16V/M or	CA1C100ENE12
	ELECTROLYTIC CAP. 10μF/16V M	CE1CMASDL100
C1917	CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104
	CHIP CERAMIC CAP.(1608) Y5V/Z/0.1μF/50V	CHD1040YF102
C1919	CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104
	CHIP CERAMIC CAP.(1608) Y5V/Z/0.1μF/50V	CHD1040YF102
C1920	ELECTROLYTIC CAP. 3.3μF/50V M or	CEF3R3ENW016
	CAP ELECTROLYTIC 3.3μF/50V/M or	CA1J3R3ENE12
	ELECTROLYTIC CAP. 3.3μF/50V M	CE1JMASDL3R3

Ref. No.	Description	Part No.
C1921	CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104
	CHIP CERAMIC CAP.(1608) Y5V/Z/0.1μF/50V	CHD1040YF102
C1922	ELECTROLYTIC CAP. 10μF/16V/M or	CEC10RENW016
	CAP ELECTROLYTIC 10μF/16V/M or	CA1C100ENE12
	ELECTROLYTIC CAP. 10μF/16V M	CE1CMASDL100
C1923	CHIP CERAMIC CAP. F Z 0.47μF/10V or	CHD1AZ30F474
	CHIP CERAMIC CAP. F Z 0.47μF/16V or	CHD1CZ30F474
	CAP CHIP 1608 Y5V/Z/0.47μF/16V	CHD4740YF094
C1924	ELECTROLYTIC CAP. 0.22μF/50V/M or	CEFR22ENW016
	CAP ELECTROLYTIC 0.22μF/50V/M or	CA1JR22ENE12
	ELECTROLYTIC CAP. 0.22μF/50V M	CE1JMASDLR22
C1927	CAP CERAMIC (AX) 0.1μF/50V/F/Z	CA1J104TU062
	CONNECTORS	
CN506	FPC/FFC CONNECTOR IMSA-9615S-05A-PP-A or	JC96J05ER007
	CONNECTOR PRINT MES 00 6232 005 006 800+ or	JC62G05UG026
	CONNECTOR PRINT MES 05FMN-BTK-A (LF)(SN) or	JCFNG05JG019
	CONNECTOR PRINT MES 05 S 1.0-11-5P	JC1105JSH001
CN1502	FFC CONNECTOR 30PIN IMSA-9615S-30A-PP-A or	JC96J30ER007
	FFC CONNECTOR 30PIN 00 6232 030 006 800+ or	JC62G30UG026
	FMN CONNECTOR TOP 30P 30FMN-BTRK-A(LF)(SN) or	JCFNG30JG020
	CONNECTOR PRINT MES 30 S 1.0-11-30P	JC1130JSH001
CN1503	CONNECTOR FFC 34P IMSA-9615S-34A-PP-A or	JC96J34ER007
	CONNECTOR FMN TOP 34P 34FMN-BTRK-A(LF)(SN) or	JCFNG34JG020
	CONNECTOR PRINT MES 34 S 1.0-11-34P	JC1134JSH001
CN1504	FMN CONNECTOR SIDE 15P 15FMN-STRK-A(LF)(SN)	JCFNG15JG022
CN1801	FFC CONNECTOR IMSA-9615S-06A-PP-A or	JC96J06ER007
	CONNECTOR PRINT MES 00 6232 006 006 800+ or	JC62G06UG026
	FMN CONNECTOR TOP 6P 06FMN-BTRK-A(LF)(SN) or	JCFNG06JG020
	CONNECTOR PRINT MES 06 S 1.0-11-6P	JC1106JSH001
	DIODES	
D021	DIODE SWITCHING 1N4148-F0021 or	NDTZ01N4148F
	DIODE SWITCHING HSS4148TE-E or	QDTZ0HSS4148
	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D301	DIODE SWITCHING 1N4148-F0021 or	NDTZ01N4148F
	DIODE SWITCHING HSS4148TE-E or	QDTZ0HSS4148
	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D302	DIODE SWITCHING 1N4148-F0021 or	NDTZ01N4148F
	DIODE SWITCHING HSS4148TE-E or	QDTZ0HSS4148
	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D370	DIODE SWITCHING 1N4148-F0021 or	NDTZ01N4148F
	DIODE SWITCHING HSS4148TE-E or	QDTZ0HSS4148
	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D510	DIODE SWITCHING 1N4148-F0021 or	NDTZ01N4148F
	DIODE SWITCHING HSS4148TE-E or	QDTZ0HSS4148
	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D511	WIRE CP STP-S-0.60 or	XZ40F0REN002
	WIRE CP CP0.56	XZ40F0XRC001
D555	LED SIR-563ST3F P or	QPQPS1R563ST
	LED SIR-563ST3F Q	QPQQS1R563ST
D1502	DIODE SWITCHING 1N4148-F0021 or	NDTZ01N4148F
	DIODE SWITCHING HSS4148TE-E or	QDTZ0HSS4148
	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1503	RECTIFIER DIODE 1N4005 or	NDQZ001N4005
	DIODE RECTIFIER 1N4005 or	NDLZ01N4005S
	RECTIFIER DIODE 1N4005	NDWZ001N4005
D1506	DIODE SWITCHING 1N4148-F0021 or	NDTZ01N4148F
	DIODE SWITCHING HSS4148TE-E or	QDTZ0HSS4148
	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1512	RECTIFIER DIODE 1N4005 or	NDQZ001N4005
	DIODE RECTIFIER 1N4005 or	NDLZ01N4005S

Ref. No.	Description	Part No.
	RECTIFIER DIODE 1N4005	NDWZ001N4005
D1514	RECTIFIER DIODE 1N4005 or	NDQZ001N4005
	DIODE RECTIFIER 1N4005 or	NDLZ01N4005S
	RECTIFIER DIODE 1N4005	NDWZ001N4005
D1515	RECTIFIER DIODE 1N4005 or	NDQZ001N4005
	DIODE RECTIFIER 1N4005 or	NDLZ01N4005S
	RECTIFIER DIODE 1N4005	NDWZ001N4005
D1522	RECTIFIER DIODE 1N4005 or	NDQZ001N4005
	DIODE RECTIFIER 1N4005 or	NDLZ01N4005S
	RECTIFIER DIODE 1N4005	NDWZ001N4005
D1523	RECTIFIER DIODE 1N4005 or	NDQZ001N4005
	DIODE RECTIFIER 1N4005 or	NDLZ01N4005S
	RECTIFIER DIODE 1N4005	NDWZ001N4005
D1524	DIODE ZENER 10BSB-T26 or	NDTB010BST26
	DIODE ZENER HZS10NB2TE-EQ or	QDTBHZS10NB2
	DIODE ZENER DO-34 MTZJ10B or	NDTB00MTZJ10
	ZENER DIODE MTZJT-7710B	QDTB00MTZJ10
D1526	DIODE ZENER 18BSB-T26 or	NDTB018BST26
	DIODE ZENER HZS18NB2TE-EQ or	QDTBHZS18NB2
	DIODE ZENER DO-34 MTZJ18B or	NDTB00MTZJ18
	ZENER DIODE MTZJT-7718B	QDTB00MTZJ18
D1527	DIODE SWITCHING 1N4148-F0021 or	NDTZ01N4148F
	DIODE SWITCHING HSS4148TE-E or	QDTZ0HSS4148
	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1529	DIODE ZENER 10BSB-T26 or	NDTB010BST26
	DIODE ZENER HZS10NB2TE-EQ or	QDTBHZS10NB2
	DIODE ZENER DO-34 MTZJ10B or	NDTB00MTZJ10
	ZENER DIODE MTZJT-7710B	QDTB00MTZJ10
D1530	DIODE ZENER 5V6BSB-T26 or	NDTB5R6BST26
	DIODE ZENER HZS5.6NB2TE-EQ or	QDTB0HZS5R6N
	DIODE ZENER DO-34 MTZJ5.6B or	NDTB0MTZJ5R6
	ZENER DIODE MTZJT-775.6B	QDTB0MTZJ5R6
D1531	DIODE ZENER 7V5BSB-T26 or	NDTB7R5BST26
	DIODE ZENER HZS7.5NB2TE-EQ or	QDTB0HZS7R5N
	DIODE ZENER DO-34 MTZJ7.5B or	NDTB0MTZJ7R5
	ZENER DIODE MTZJT-777.5B	QDTB0MTZJ7R5
D1532	DIODE SWITCHING 1N4148-F0021 or	NDTZ01N4148F
	DIODE SWITCHING HSS4148TE-E or	QDTZ0HSS4148
	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1533	DIODE ZENER 4V3BSC-T26 or	NDTC4R3BST26
	DIODE ZENER HZS4.3NB3TE-EQ or	QDTC0HZS4R3N
	DIODE ZENER DO-34 MTZJ4.3C or	NDTC0MTZJ4R3
	ZENER DIODE MTZJT-774.3C	QDTC0MTZJ4R3
D1534	DIODE ZENER 11BSA-T26 or	NDTA011BST26
	DIODE ZENER HZS11NB1TE-EQ or	QDTAHZS11NB1
	DIODE ZENER DO-34 MTZJ11A or	NDTA00MTZJ11
	ZENER DIODE MTZJT-7711A	QDTA00MTZJ11
D1535	DIODE ZENER 11BSA-T26 or	NDTA011BST26
	DIODE ZENER HZS11NB1TE-EQ or	QDTAHZS11NB1
	DIODE ZENER DO-34 MTZJ11A or	NDTA00MTZJ11
	ZENER DIODE MTZJT-7711A	QDTA00MTZJ11
D1536	DIODE ZENER 11BSA-T26 or	NDTA011BST26
	DIODE ZENER HZS11NB1TE-EQ or	QDTAHZS11NB1
	DIODE ZENER DO-34 MTZJ11A or	NDTA00MTZJ11
	ZENER DIODE MTZJT-7711A	QDTA00MTZJ11
D1537	DIODE ZENER 11BSA-T26 or	NDTA011BST26
	DIODE ZENER HZS11NB1TE-EQ or	QDTAHZS11NB1
	DIODE ZENER DO-34 MTZJ11A or	NDTA00MTZJ11
	ZENER DIODE MTZJT-7711A	QDTA00MTZJ11
D1539	DIODE ZENER 11BSA-T26 or	NDTA011BST26
	DIODE ZENER HZS11NB1TE-EQ or	QDTAHZS11NB1
	DIODE ZENER DO-34 MTZJ11A or	NDTA00MTZJ11
	ZENER DIODE MTZJT-7711A	QDTA00MTZJ11
D1540	DIODE ZENER 11BSA-T26 or	NDTA011BST26
	DIODE ZENER HZS11NB1TE-EQ or	QDTAHZS11NB1
	DIODE ZENER DO-34 MTZJ11A or	NDTA00MTZJ11
	ZENER DIODE MTZJT-7711A	QDTA00MTZJ11

Ref. No.	Description	Part No.
D1541	DIODE ZENER 11BSA-T26 or	NDTA011BST26
	DIODE ZENER HZS11NB1TE-EQ or	QDTAHZS11NB1
	DIODE ZENER DO-34 MTZJ11A or	NDTA00MTZJ11
	ZENER DIODE MTZJT-7711A	QDTA00MTZJ11
D1542	DIODE ZENER 11BSA-T26 or	NDTA011BST26
	DIODE ZENER HZS11NB1TE-EQ or	QDTAHZS11NB1
	DIODE ZENER DO-34 MTZJ11A or	NDTA00MTZJ11
	ZENER DIODE MTZJT-7711A	QDTA00MTZJ11
D1543	DIODE ZENER 11BSA-T26 or	NDTA011BST26
	DIODE ZENER HZS11NB1TE-EQ or	QDTAHZS11NB1
	DIODE ZENER DO-34 MTZJ11A or	NDTA00MTZJ11
	ZENER DIODE MTZJT-7711A	QDTA00MTZJ11
D1544	DIODE ZENER 11BSA-T26 or	NDTA011BST26
	DIODE ZENER HZS11NB1TE-EQ or	QDTAHZS11NB1
	DIODE ZENER DO-34 MTZJ11A or	NDTA00MTZJ11
	ZENER DIODE MTZJT-7711A	QDTA00MTZJ11
D1545	DIODE ZENER 11BSA-T26 or	NDTA011BST26
	DIODE ZENER HZS11NB1TE-EQ or	QDTAHZS11NB1
	DIODE ZENER DO-34 MTZJ11A or	NDTA00MTZJ11
	ZENER DIODE MTZJT-7711A	QDTA00MTZJ11
D1547	DIODE SWITCHING 1N4148-F0021 or	NDTZ01N4148F
	DIODE SWITCHING HSS4148TE-E or	QDTZ0HSS4148
	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1548	DIODE SWITCHING 1N4148-F0021 or	NDTZ01N4148F
	DIODE SWITCHING HSS4148TE-E or	QDTZ0HSS4148
	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1549	RECTIFIER DIODE 1N4005 or	NDQZ001N4005
	DIODE RECTIFIER 1N4005 or	NDLZ01N4005S
	RECTIFIER DIODE 1N4005	NDWZ001N4005
D1550	RECTIFIER DIODE 1N4005 or	NDQZ001N4005
	DIODE RECTIFIER 1N4005 or	NDLZ01N4005S
	RECTIFIER DIODE 1N4005	NDWZ001N4005
D1553	WIRE CP STP-S-0.60 or	XZ40F0REN002
	WIRE CP CP0.56	XZ40F0XRC001
D1564	DIODE SWITCHING 1N4148-F0021 or	NDTZ01N4148F
	DIODE SWITCHING HSS4148TE-E or	QDTZ0HSS4148
	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1567	DIODE ZENER 8V2BSB-T26 or	NDTB8R2BST26
	DIODE ZENER HZS8.2NB2TE-EQ or	QDTB0HZS8R2N
	DIODE ZENER DO-34 MTZJ8.2B or	NDTB0MTZJ8R2
	ZENER DIODE MTZJT-778.2B	QDTB0MTZJ8R2
D1568	RECTIFIER DIODE 1N4005 or	NDQZ001N4005
	DIODE RECTIFIER 1N4005 or	NDLZ01N4005S
	RECTIFIER DIODE 1N4005	NDWZ001N4005
D1569	DIODE SWITCHING 1N4148-F0021 or	NDTZ01N4148F
	DIODE SWITCHING HSS4148TE-E or	QDTZ0HSS4148
	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1572	DIODE SWITCHING 1N4148-F0021 or	NDTZ01N4148F
	DIODE SWITCHING HSS4148TE-E or	QDTZ0HSS4148
	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1606	DIODE ZENER 24BSB-T26 or	NDTB024BST26
	DIODE ZENER HZS24NB2TE-EQ or	QDTBHZS24NB2
	DIODE ZENER DO-34 MTZJ24B or	NDTB00MTZJ24
	ZENER DIODE MTZJT-7724B	QDTB00MTZJ24
D1607	WIRE CP STP-S-0.60 or	XZ40F0REN002
	WIRE CP CP0.56	XZ40F0XRC001
D1608	DIODE SWITCHING 1N4148-F0021 or	NDTZ01N4148F
	DIODE SWITCHING HSS4148TE-E or	QDTZ0HSS4148
	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1801	DIODE SWITCHING 1N4148-F0021 or	NDTZ01N4148F
	DIODE SWITCHING HSS4148TE-E or	QDTZ0HSS4148
	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1802	DIODE SWITCHING 1N4148-F0021 or	NDTZ01N4148F
	DIODE SWITCHING HSS4148TE-E or	QDTZ0HSS4148
	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1803	DIODE SWITCHING 1N4148-F0021 or	NDTZ01N4148F
	DIODE SWITCHING HSS4148TE-E or	QDTZ0HSS4148
	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
D1804	DIODE ZENER 33BSD-T26 or	NDTD033BST26
	DIODE ZENER HZS33NB4TE-EQ or	QDTDHZS33NB4
	DIODE ZENER DO-34 MTZJ33D or	NDTD00MTZJ33
	ZENER DIODE MTZJT-7733D	QDTD00MTZJ33
D1902	DIODE SWITCHING 1N4148-F0021 or	NDTZ01N4148F
	DIODE SWITCHING HSS4148TE-E or	QDTZ0HSS4148
	SWITCHING DIODE 1SS133(T-77)	QDTZ001SS133
	ICS	
IC301	IC Y/C/A LA71750EM-MPB-E	QSZBA0RSY020
IC370	IC SECAM LA70100M-TRM-E	QSZBA0TSY019
IC451	IC HIFI LA72648M-MPB-E	QSZBA0RSY033
IC501	IC SYSCON M3776AMCH-AK3GP	QSAA0R0HT043
IC612	VFD DRIVER IC PT6315(L) or	NSZBA0RG2009
	VFD DRIVER IC SC16315	NSZBA0TQ0010
IC700	IC VPS/PDC SLICER LC74793JM-TLM-E	QSZBA0TSY018
IC1508	IC OP AMP UTC4558TE/SOP/8PIN or	NSCA0T02H002
	IC OP AMP UTC4558E/SOP/8PIN or	NSZBA0T2H009
	IC OP AMP S4558 SOP-8 8PIN or	NSZBA0TAUK05
	IC OPAMP KIA4558F-EL/P FLP 8P	NSZBA0TJY057
IC1509	IC INTERFACE HA118326APF-E	QSZBA0RHT051
IC1800	IC VOLTAGE REGULATOR PQ070XFC1SZF / 4PIN or	QSZBA0RSH083
	VOLTAGE REGULATOR PQ070XF01SZH	QSZBA0SSH054
IC1902	IC AUDIO PROCESSOR MSP3417G-QG-B8-V3	NSZBA0SP3005
	COILS	
L251	MICRO INDUCTOR 5.6µH-K-5FT	LLARKBSTU5R6
L302	INDUCTOR(100µH K) LAP02TA101K	LLAXKATTU101
L370	WIRE CP STP-S-0.60 or	XZ40F0REN002
	WIRE CP CP0.56	XZ40F0XRC001
L402	INDUCTOR 47µH-K-5FT	LLARKBSTU470
L451	INDUCTOR 47µH-K-5FT	LLARKBSTU470
L452	RADIAL TYPE CHOKE COIL CW68-470K-841040NP or	LLBD00PKV023
	CHOKE COIL 47µH-K or	LLBD00PKT001
	CHOKE COIL 47µH/ST0812DR6*8-027	LLED0P0Y2001
L502	WIRE CP STP-S-0.60 or	XZ40F0REN002
	WIRE CP CP0.56	XZ40F0XRC001
L503	INDUCTOR 1.8µH-K-26T	LLAXKATTU1R8
L504	WIRE CP STP-S-0.60 or	XZ40F0REN002
	WIRE CP CP0.56	XZ40F0XRC001
L1501	INDUCTOR(100µH K) LAP02TA101K	LLAXKATTU101
L1502	WIRE CP STP-S-0.60 or	XZ40F0REN002
	WIRE CP CP0.56	XZ40F0XRC001
L1504	RADIAL TYPE CHOKE COIL CW68-470K-841040NP or	LLBD00PKV023
	CHOKE COIL 47µH-K or	LLBD00PKT001
	CHOKE COIL 47µH/ST0812DR6*8-027	LLED0P0Y2001
L1505	RADIAL TYPE CHOKE COIL CW68-470K-841040NP or	LLBD00PKV023
	CHOKE COIL 47µH-K or	LLBD00PKT001
	CHOKE COIL 47µH/ST0812DR6*8-027	LLED0P0Y2001
L1506	INDUCTOR 100µH-K-5FT	LLARKBSTU101
L1507	INDUCTOR(100µH K) LAP02TA101K	LLAXKATTU101
L1508	INDUCTOR 18µH-K-26T	LLAXKATTU180
L1509	CHOKE COIL 22µH-K or	LLBD00PKV021
	CHOKE COIL 22µH-K or	LLBD00PKT002
	CHOKE COIL 22µH/ST0812DR6*8-028	LLED0P0Y2002
L1510	INDUCTOR(100µH K) LAP02TA101K	LLAXKATTU101
L1511	WIRE CP STP-S-0.60 or	XZ40F0REN002
	WIRE CP CP0.56	XZ40F0XRC001
L1512	INDUCTOR(100µH K) LAP02TA101K	LLAXKATTU101
L1513	RADIAL TYPE CHOKE COIL CW68-470K-841040NP or	LLBD00PKV023
	CHOKE COIL 47µH-K or	LLBD00PKT001
	CHOKE COIL 47µH/ST0812DR6*8-027	LLED0P0Y2001
L1516	INDUCTOR(0.47µH K) LAP02TAR47K	LLAXKATTUR47
L1601	BEAD CORE ASSEMBLY E3TK3FD	1VSA22787
L1800	CHOKE COIL 22µH-K or	LLBD00PKV021

Ref. No.	Description	Part No.
	CHOKE COIL 22μH-K or	LLBD00PKT002
	CHOKE COIL 22μH/ST0812DR6*8-028	LLED0P0Y2002
L1901	CHOKE COIL 22μH-K or	LLBD00PKV021
	CHOKE COIL 22μH-K or	LLBD00PKT002
	CHOKE COIL 22μH/ST0812DR6*8-028	LLED0P0Y2002
L1902	WIRE CP STP-S-0.60 or	XZ40F0REN002
	WIRE CP CP0.56	XZ40F0XRC001
L1903	INDUCTOR 18μH-K-26T	LLAXKATTU180
L1904	CHOKE COIL 22μH-K or	LLBD00PKV021
	CHOKE COIL 22μH-K or	LLBD00PKT002
	CHOKE COIL 22μH/ST0812DR6*8-028	LLED0P0Y2002
	TRANSISTORS	
Q302	NPN TRANSISTOR 2SC5343MG-AT or	NQSG2SC5343M
	TRANSISTOR KTC3199-GR-AT/P or	NQS4KTC3199P
	TRANSISTOR 2SC1815-GR(TE2 F T) or	QQS12SC1815F
	NPN TRANSISTOR 2SC5343M Y or	NQSY2SC5343M
	TRANSISTOR KTC3199-Y-AT/P or	NQSYKTC3199P
	TRANSISTOR 2SC1815-Y(TE2 F T) or	QQSY2SC1815F
	NPN TRANSISTOR ST 2SC3199G	NQSGT2SC3199
Q401	CHIP TRANSISTOR RN1511(TE85R.F) or	QQ2Z0RN1511F
	CHIP TRANSISTOR FMG4A T148	QQ2Z000FMG4A
Q402	PNP TRANSISTOR 2SA1980 G or	NQSG02SA1980
	TRANSISTOR KTA-1266-GR-AT/P or	NQS4KTA1266P
	TRANSISTOR 2SA1015-GR(TE2 F T) or	QQS12SA1015F
	PNP TRANSISTOR ST 2SA1266G	NQSGT2SA1266
Q403	NPN TRANSISTOR 2SC5344 Y or	NQSY02SC5344
	TRANSISTOR KTC3203-Y-AT/P or	NQSYKTC3203P
	TRANSISTOR 2SC2120-Y(TE2 F T)	QQSY2SC2120F
Q404	PNP TRANSISTOR 2SA1980 G or	NQSG02SA1980
	TRANSISTOR KTA-1266-GR-AT/P or	NQS4KTA1266P
	TRANSISTOR 2SA1015-GR(TE2 F T) or	QQS12SA1015F
	PNP TRANSISTOR ST 2SA1266G	NQSGT2SA1266
Q405	PNP TRANSISTOR RES.-IN SRA2203M-AT or	NQSZSRA2203M
	RES. BUILT-IN TRANSISTOR KRA103M-AT/P or	NQSZ0KRA103M
	TRANSISTOR RN2203(TE4 F T) or	QQSZ0RN2203F
	PNP TRANSISTOR RA103S	NQSZ00RA103S
Q406	NPN TRANSISTOR SMD 2SC5343SFY or	NQ1Y2SC5343S
	NPN TRANSISTOR SMD 2SC5343SY or	NQXY2SC5343S
	CHIP TRANSISTOR KTC3875S-Y-RTK/P or	NQ1YKTC3875S
	CHIP TRANSISTOR 2SC3928A-T112-1R	QQ1R2SC3928A
Q451	TRANSISTOR SRC1203SF or	NQ1ZSRC1203S
	TRANSISTOR KRC103S-RTK/P or	NQ1ZKRC103SP
	NPN TRANSISTOR RT1N241C-T112-1	QQ1ZRT1N241C
Q506	PHOTO TRANSISTOR PT204-6B-12 or	NPWZT2046B12
	PHOTO TRANSISTOR MID-32A22F	NPWZ1D32A22F
Q514	NPN TRANSISTOR 2SC5343ML-AT or	NQSL2SC5343M
	TRANSISTOR KTC3199-BL-AT/P or	NQS5KTC3199P
	TRANSISTOR 2SC1815-BL(TE2 F T) or	QQS22SC1815F
	NPN TRANSISTOR ST 2SC3199L	NQSLT2SC3199
Q516	NPN TRANSISTOR SMD 2SC5343SFG or	NQ1G2SC5343S
	NPN TRANSISTOR SMD 2SC5343SG or	NQXG2SC5343S
	CHIP TRANSISTOR KTC3875S-GR-RTK/P or	NQ14KTC3875S
	CHIP TRANSISTOR 2SC3928A-T112-1Z	QQ1Z2SC3928A
Q517	NPN TRANSISTOR SMD 2SC5343SFG or	NQ1G2SC5343S
	NPN TRANSISTOR SMD 2SC5343SG or	NQXG2SC5343S
	CHIP TRANSISTOR KTC3875S-GR-RTK/P or	NQ14KTC3875S
	CHIP TRANSISTOR 2SC3928A-T112-1Z	QQ1Z2SC3928A
Q518	NPN TRANSISTOR RES-IN SRC1203MAT or	NQSZSRC1203M
	NPN TRANSISTOR KRC103M-AT/P or	NQSZKRC103MP
	NPN TRANSISTOR RES.-IN RN1203(TE4 F T) or	QQSZ0RN1203F
	NPN TRANSISTOR RC103S	NQSZ00RC103S
Q519	NPN TRANSISTOR RES-IN SRC1203MAT or	NQSZSRC1203M
	NPN TRANSISTOR KRC103M-AT/P or	NQSZKRC103MP
	NPN TRANSISTOR RES.-IN RN1203(TE4 F T) or	QQSZ0RN1203F
	NPN TRANSISTOR RC103S	NQSZ00RC103S
Q1508	TRANSISTOR KTA1281-Y-AT/P or	NQVYKTA1281P
	TRANSISTOR 2SA1020-Y(TE6 F M)	QQSY2SA1020F
Q1509	NPN TRANSISTOR RES-IN SRC1203MAT or	NQSZSRC1203M
	NPN TRANSISTOR KRC103M-AT/P or	NQSZKRC103MP
	NPN TRANSISTOR RES.-IN RN1203(TE4 F T) or	QQSZ0RN1203F
	NPN TRANSISTOR RC103S	NQSZ00RC103S
Q1511	PNP TRANSISTOR RES.-IN SRA2204M-AT or	NQSZSRA2204M
	RES. BUILT-IN TRANSISTOR KRA104M-AT/P or	NQSZ0KRA104M
	TRANSISTOR RN2204(TE4 F T) or	QQSZ0RN2204F
	PNP TRANSISTOR RA104S	NQSZ00RA104S
Q1512	NPN TRANSISTOR RES-IN SRC1203MAT or	NQSZSRC1203M
	NPN TRANSISTOR KRC103M-AT/P or	NQSZKRC103MP
	NPN TRANSISTOR RES.-IN RN1203(TE4 F T) or	QQSZ0RN1203F
	NPN TRANSISTOR RC103S	NQSZ00RC103S
Q1513	NPN TRANSISTOR 2SC5343G-AT or	NQSG02SC5343
	TRANSISTOR KTC3198-GR-AT/P or	NQS4KTC3198P
	NPN TRANSISTOR 2SC5343Y-AT or	NQSY02SC5343
	TRANSISTOR KTC3198-Y-AT/P or	NQSYKTC3198P
	NPN TRANSISTOR ST 2SC3198G	NQSGT2SC3198
Q1514	NPN TRANSISTOR 2SC5343MG-AT or	NQSG2SC5343M
	TRANSISTOR KTC3199-GR-AT/P or	NQS4KTC3199P
	TRANSISTOR 2SC1815-GR(TE2 F T) or	QQS12SC1815F
	NPN TRANSISTOR 2SC5343M Y or	NQSY2SC5343M
	TRANSISTOR KTC3199-Y-AT/P or	NQSYKTC3199P
	TRANSISTOR 2SC1815-Y(TE2 F T) or	QQSY2SC1815F
	NPN TRANSISTOR ST 2SC3199G	NQSGT2SC3199
Q1515	NPN TRANSISTOR 2SC5343MG-AT or	NQSG2SC5343M
	TRANSISTOR KTC3199-GR-AT/P or	NQS4KTC3199P
	TRANSISTOR 2SC1815-GR(TE2 F T) or	QQS12SC1815F
	NPN TRANSISTOR 2SC5343M Y or	NQSY2SC5343M
	TRANSISTOR KTC3199-Y-AT/P or	NQSYKTC3199P
	TRANSISTOR 2SC1815-Y(TE2 F T) or	QQSY2SC1815F
	NPN TRANSISTOR ST 2SC3199G	NQSGT2SC3199
Q1516	NPN TRANSISTOR 2SC5343MG-AT or	NQSG2SC5343M
	TRANSISTOR KTC3199-GR-AT/P or	NQS4KTC3199P
	TRANSISTOR 2SC1815-GR(TE2 F T) or	QQS12SC1815F
	NPN TRANSISTOR 2SC5343M Y or	NQSY2SC5343M
	TRANSISTOR KTC3199-Y-AT/P or	NQSYKTC3199P
	TRANSISTOR 2SC1815-Y(TE2 F T) or	QQSY2SC1815F
	NPN TRANSISTOR ST 2SC3199G	NQSGT2SC3199
Q1517	NPN TRANSISTOR 2SC5344 Y or	NQSY02SC5344
	TRANSISTOR KTC3203-Y-AT/P or	NQSYKTC3203P
	TRANSISTOR 2SC2120-Y(TE2 F T)	QQSY2SC2120F
Q1520	NPN TRANSISTOR 2SC5344 Y or	NQSY02SC5344
	TRANSISTOR KTC3203-Y-AT/P or	NQSYKTC3203P
	TRANSISTOR 2SC2120-Y(TE2 F T)	QQSY2SC2120F
Q1521	NPN TRANSISTOR 2SC5344 Y or	NQSY02SC5344
	TRANSISTOR KTC3203-Y-AT/P or	NQSYKTC3203P
	TRANSISTOR 2SC2120-Y(TE2 F T)	QQSY2SC2120F
Q1525	NPN TRANSISTOR RES-IN SRC1203MAT or	NQSZSRC1203M
	NPN TRANSISTOR KRC103M-AT/P or	NQSZKRC103MP
	NPN TRANSISTOR RES.-IN RN1203(TE4 F T) or	QQSZ0RN1203F
	NPN TRANSISTOR RC103S	NQSZ00RC103S
Q1526	NPN TRANSISTOR 2SC5343ML-AT or	NQSL2SC5343M
	TRANSISTOR KTC3199-BL-AT/P or	NQS5KTC3199P
	TRANSISTOR 2SC1815-BL(TE2 F T) or	QQS22SC1815F
	NPN TRANSISTOR ST 2SC3199L	NQSLT2SC3199
Q1527	PNP TRANSISTOR 2SA1980MG-AT or	NQSG2SA1980M
	TRANSISTOR KTA1267-GR-AT/P or	NQS1KTA1267P
	PNP TRANSISTOR 2SA1980M Y or	NQSY2SA1980M
	TRANSISTOR KTA1267-Y-AT/P or	NQSYKTA1267P
	PNP TRANSISTOR ST 2SA1267G	NQSGT2SA1267
Q1528	NPN TRANSISTOR 2SC5343MG-AT or	NQSG2SC5343M
	TRANSISTOR KTC3199-GR-AT/P or	NQS4KTC3199P
	TRANSISTOR 2SC1815-GR(TE2 F T) or	QQS12SC1815F
	NPN TRANSISTOR 2SC5343M Y or	NQSY2SC5343M

Ref. No.	Description	Part No.
	TRANSISTOR KTC3199-Y-AT/P or	NQSYKTC3199P
	TRANSISTOR 2SC1815-Y(TE2 F T) or	QQSY2SC1815F
	NPN TRANSISTOR ST 2SC3199G	NQSGT2SC3199
Q1533	NPN TRANSISTOR 2SC5343MG-AT or	NQSG2SC5343M
	TRANSISTOR KTC3199-GR-AT/P or	NQS4KTC3199P
	TRANSISTOR 2SC1815-GR(TE2 F T) or	QQS12SC1815F
	NPN TRANSISTOR 2SC5343M Y or	NQSY2SC5343M
	TRANSISTOR KTC3199-Y-AT/P or	NQSYKTC3199P
	TRANSISTOR 2SC1815-Y(TE2 F T) or	QQSY2SC1815F
	NPN TRANSISTOR ST 2SC3199G	NQSGT2SC3199
Q1534	PNP TRANSISTOR 2SA1980 G or	NQSG02SA1980
	TRANSISTOR KTA-1266-GR-AT/P or	NQS4KTA1266P
	TRANSISTOR 2SA1015-GR(TE2 F T) or	QQS12SA1015F
	PNP TRANSISTOR ST 2SA1266G	NQSGT2SA1266
Q1535	NPN TRANSISTOR 2SC5343MG-AT or	NQSG2SC5343M
	TRANSISTOR KTC3199-GR-AT/P or	NQS4KTC3199P
	TRANSISTOR 2SC1815-GR(TE2 F T) or	QQS12SC1815F
	NPN TRANSISTOR 2SC5343M Y or	NQSY2SC5343M
	TRANSISTOR KTC3199-Y-AT/P or	NQSYKTC3199P
	TRANSISTOR 2SC1815-Y(TE2 F T) or	QQSY2SC1815F
	NPN TRANSISTOR ST 2SC3199G	NQSGT2SC3199
Q1536	PNP TRANSISTOR 2SA1980 G or	NQSG02SA1980
	TRANSISTOR KTA-1266-GR-AT/P or	NQS4KTA1266P
	TRANSISTOR 2SA1015-GR(TE2 F T) or	QQS12SA1015F
	PNP TRANSISTOR ST 2SA1266G	NQSGT2SA1266
Q1537	NPN TRANSISTOR 2SC5343MG-AT or	NQSG2SC5343M
	TRANSISTOR KTC3199-GR-AT/P or	NQS4KTC3199P
	TRANSISTOR 2SC1815-GR(TE2 F T) or	QQS12SC1815F
	NPN TRANSISTOR 2SC5343M Y or	NQSY2SC5343M
	TRANSISTOR KTC3199-Y-AT/P or	NQSYKTC3199P
	TRANSISTOR 2SC1815-Y(TE2 F T) or	QQSY2SC1815F
	NPN TRANSISTOR ST 2SC3199G	NQSGT2SC3199
Q1538	NPN TRANSISTOR 2SC5343MG-AT or	NQSG2SC5343M
	TRANSISTOR KTC3199-GR-AT/P or	NQS4KTC3199P
	TRANSISTOR 2SC1815-GR(TE2 F T) or	QQS12SC1815F
	NPN TRANSISTOR 2SC5343M Y or	NQSY2SC5343M
	TRANSISTOR KTC3199-Y-AT/P or	NQSYKTC3199P
	TRANSISTOR 2SC1815-Y(TE2 F T) or	QQSY2SC1815F
	NPN TRANSISTOR ST 2SC3199G	NQSGT2SC3199
Q1539	NPN TRANSISTOR 2SC5343MG-AT or	NQSG2SC5343M
	TRANSISTOR KTC3199-GR-AT/P or	NQS4KTC3199P
	TRANSISTOR 2SC1815-GR(TE2 F T) or	QQS12SC1815F
	NPN TRANSISTOR 2SC5343M Y or	NQSY2SC5343M
	TRANSISTOR KTC3199-Y-AT/P or	NQSYKTC3199P
	TRANSISTOR 2SC1815-Y(TE2 F T) or	QQSY2SC1815F
	NPN TRANSISTOR ST 2SC3199G	NQSGT2SC3199
Q1540	NPN TRANSISTOR 2SC5343MG-AT or	NQSG2SC5343M
	TRANSISTOR KTC3199-GR-AT/P or	NQS4KTC3199P
	TRANSISTOR 2SC1815-GR(TE2 F T) or	QQS12SC1815F
	NPN TRANSISTOR 2SC5343M Y or	NQSY2SC5343M
	TRANSISTOR KTC3199-Y-AT/P or	NQSYKTC3199P
	TRANSISTOR 2SC1815-Y(TE2 F T) or	QQSY2SC1815F
	NPN TRANSISTOR ST 2SC3199G	NQSGT2SC3199
Q1541	PNP TRANSISTOR 2SA1980 G or	NQSG02SA1980
	TRANSISTOR KTA-1266-GR-AT/P or	NQS4KTA1266P
	TRANSISTOR 2SA1015-GR(TE2 F T) or	QQS12SA1015F
	PNP TRANSISTOR ST 2SA1266G	NQSGT2SA1266
Q1544	NPN TRANSISTOR 2SC5343MG-AT or	NQSG2SC5343M
	TRANSISTOR KTC3199-GR-AT/P or	NQS4KTC3199P
	TRANSISTOR 2SC1815-GR(TE2 F T) or	QQS12SC1815F
	NPN TRANSISTOR 2SC5343M Y or	NQSY2SC5343M
	TRANSISTOR KTC3199-Y-AT/P or	NQSYKTC3199P
	TRANSISTOR 2SC1815-Y(TE2 F T) or	QQSY2SC1815F
	NPN TRANSISTOR ST 2SC3199G	NQSGT2SC3199
Q1545	NPN TRANSISTOR 2SC5343MG-AT or	NQSG2SC5343M
	TRANSISTOR KTC3199-GR-AT/P or	NQS4KTC3199P
	TRANSISTOR 2SC1815-GR(TE2 F T) or	QQS12SC1815F

Ref. No.	Description	Part No.
	NPN TRANSISTOR 2SC5343M Y or	NQSY2SC5343M
	TRANSISTOR KTC3199-Y-AT/P or	NQSYKTC3199P
	TRANSISTOR 2SC1815-Y(TE2 F T) or	QQSY2SC1815F
	NPN TRANSISTOR ST 2SC3199G	NQSGT2SC3199
Q1546	NPN TRANSISTOR 2SC5343MG-AT or	NQSG2SC5343M
	TRANSISTOR KTC3199-GR-AT/P or	NQS4KTC3199P
	TRANSISTOR 2SC1815-GR(TE2 F T) or	QQS12SC1815F
	NPN TRANSISTOR 2SC5343M Y or	NQSY2SC5343M
	TRANSISTOR KTC3199-Y-AT/P or	NQSYKTC3199P
	TRANSISTOR 2SC1815-Y(TE2 F T) or	QQSY2SC1815F
	NPN TRANSISTOR ST 2SC3199G	NQSGT2SC3199
Q1547	PNP TRANSISTOR 2SA1980 G or	NQSG02SA1980
	TRANSISTOR KTA-1266-GR-AT/P or	NQS4KTA1266P
	TRANSISTOR 2SA1015-GR(TE2 F T) or	QQS12SA1015F
	PNP TRANSISTOR ST 2SA1266G	NQSGT2SA1266
Q1800	NPN TRANSISTOR RES-IN SRC1203MAT or	NQSZSRC1203M
	NPN TRANSISTOR KRC103M-AT/P or	NQSZKRC103MP
	NPN TRANSISTOR RES.-IN RN1203(TE4 F T) or	QQSZ0RN1203F
	NPN TRANSISTOR RC103S	NQSZ00RC103S
Q1803	FET MOS SMD KTK5132S-RTK/P or	NF1ZKTK5132S
	MOS FET SSM3K15F(TE85L F)	QF1GSSM3K15F
Q1804	FET MOS SMD KTK5132S-RTK/P or	NF1ZKTK5132S
	MOS FET SSM3K15F(TE85L F)	QF1GSSM3K15F
Q1805	NPN TRANSISTOR RES-IN SRC1203MAT or	NQSZSRC1203M
	NPN TRANSISTOR KRC103M-AT/P or	NQSZKRC103MP
	NPN TRANSISTOR RES.-IN RN1203(TE4 F T) or	QQSZ0RN1203F
	NPN TRANSISTOR RC103S	NQSZ00RC103S
Q1806	FET MOS SMD KTK5132S-RTK/P or	NF1ZKTK5132S
	MOS FET SSM3K15F(TE85L F)	QF1GSSM3K15F
Q1807	FET MOS SMD KTK5132S-RTK/P or	NF1ZKTK5132S
	MOS FET SSM3K15F(TE85L F)	QF1GSSM3K15F
Q1808	NPN TRANSISTOR 2SC5343MG-AT or	NQSG2SC5343M
	TRANSISTOR KTC3199-GR-AT/P or	NQS4KTC3199P
	TRANSISTOR 2SC1815-GR(TE2 F T) or	QQS12SC1815F
	NPN TRANSISTOR 2SC5343M Y or	NQSY2SC5343M
	TRANSISTOR KTC3199-Y-AT/P or	NQSYKTC3199P
	TRANSISTOR 2SC1815-Y(TE2 F T) or	QQSY2SC1815F
	NPN TRANSISTOR ST 2SC3199G	NQSGT2SC3199
	RESISTORS	
R069	WIRE CP STP-S-0.60 or	XZ40F0REN002
	WIRE CP CP0.56	XZ40F0XRC001
R251	CHIP RES. 1/10W J 39k Ω or	RRXAJR5Z0393
	RES CHIP 1608 1/10W J 39k Ω	RRXA393YF002
R252	CHIP RES. 1/10W J 2.2k Ω or	RRXAJR5Z0222
	RES CHIP 1608 1/10W J 2.2k Ω	RRXA222YF002
R301	CHIP RES. 1/10W J 1.2k Ω or	RRXAJR5Z0122
	RES CHIP 1608 1/10W J 1.2k Ω	RRXA122YF002
R303	CHIP RES. 1/10W J 5.6k Ω or	RRXAJR5Z0562
	RES CHIP 1608 1/10W J 5.6k Ω	RRXA562YF002
R305	CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
	RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R308	CHIP RES. 1/10W J 3.9k Ω or	RRXAJR5Z0392
	RES CHIP 1608 1/10W J 3.9k Ω	RRXA392YF002
R312	CHIP RES. 1/10W J 5.6k Ω or	RRXAJR5Z0562
	RES CHIP 1608 1/10W J 5.6k Ω	RRXA562YF002
R314	CHIP RES. 1/10W J 3.9k Ω or	RRXAJR5Z0392
	RES CHIP 1608 1/10W J 3.9k Ω	RRXA392YF002
R316	CHIP RES. 1/10W J 1.8k Ω or	RRXAJR5Z0182
	RES CHIP 1608 1/10W J 1.8k Ω	RRXA182YF002
R319	CHIP RES. 1/10W J 1k Ω or	RRXAJR5Z0102
	RES CHIP 1608 1/10W J 1.0k Ω	RRXA102YF002
R320	CHIP RES. 1/10W J 47k Ω or	RRXAJR5Z0473
	RES CHIP 1608 1/10W J 47k Ω	RRXA473YF002
R321	CHIP RES. 1/10W J 150 Ω or	RRXAJR5Z0151
	RES CHIP 1608 1/10W J 150 Ω	RRXA151YF002
R322	CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103

Ref. No.	Description	Part No.
	RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R323	CHIP RES. 1/10W J 150 Ω or	RRXAJR5Z0151
	RES CHIP 1608 1/10W J 150 Ω	RRXA151YF002
R324	CHIP RES. 1/10W J 3.3k Ω or	RRXAJR5Z0332
	RES CHIP 1608 1/10W J 3.3k Ω	RRXA332YF002
R325	CHIP RES. 1/10W J 1.2k Ω or	RRXAJR5Z0122
	RES CHIP 1608 1/10W J 1.2k Ω	RRXA122YF002
R326	CHIP RES. 1/10W J 4.7k Ω or	RRXAJR5Z0472
	RES CHIP 1608 1/10W J 4.7k Ω	RRXA472YF002
R327	CHIP RES. 1/10W J 6.8k Ω or	RRXAJR5Z0682
	RES CHIP 1608 1/10W J 6.8k Ω	RRXA682YF002
R328	CHIP RES. 1/10W J 1k Ω or	RRXAJR5Z0102
	RES CHIP 1608 1/10W J 1.0k Ω	RRXA102YF002
R329	CHIP RES. 1/10W J 220 Ω or	RRXAJR5Z0221
	RES CHIP 1608 1/10W J 220 Ω	RRXA221YF002
R330	CHIP RES. 1/10W J 2.2k Ω or	RRXAJR5Z0222
	RES CHIP 1608 1/10W J 2.2k Ω	RRXA222YF002
R331	CHIP RES. 1/10W J 18k Ω or	RRXAJR5Z0183
	RES CHIP 1608 1/10W J 18k Ω	RRXA183YF002
R332	CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
	RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R333	CHIP RES. 1/10W J 18k Ω or	RRXAJR5Z0183
	RES CHIP 1608 1/10W J 18k Ω	RRXA183YF002
R334	CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
	RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R335	CHIP RES. 1/10W J 100 Ω or	RRXAJR5Z0101
	RES CHIP 1608 1/10W J 100 Ω	RRXA101YF002
R336	CARBON RES. 1/6W J 4.7k Ω or	RCX6JATZ0472
	CARBON RES. 1/4W J 4.7k Ω or	RCX4JATZ0472
	RES CARBON FILM 1/4W J 4.7k Ω	RCJ472PAK001
R337	CHIP RES. 1/10W J 6.8k Ω or	RRXAJR5Z0682
	RES CHIP 1608 1/10W J 6.8k Ω	RRXA682YF002
R338	CARBON RES. 1/4W J 680 Ω or	RCX4JATZ0681
	RES CARBON FILM 1/4W J 680 Ω	RCJ681PAK001
R370	CHIP RES. 1/10W J 2.7k Ω or	RRXAJR5Z0272
	RES CHIP 1608 1/10W J 2.7k Ω	RRXA272YF002
R371	CARBON RES. 1/6W J 5.6k Ω or	RCX6JATZ0562
	CARBON RES. 1/4W J 5.6k Ω or	RCX4JATZ0562
	RES CARBON FILM 1/4W J 5.6k Ω	RCJ562PAK001
R372	CHIP RES. 1/10W J 3.9k Ω or	RRXAJR5Z0392
	RES CHIP 1608 1/10W J 3.9k Ω	RRXA392YF002
R401	CARBON RES. 1/4W J 820 Ω or	RCX4JATZ0821
	RES CARBON FILM 1/4W J 820 Ω	RCJ821PAK001
R402	CARBON RES. 1/4W J 100 Ω or	RCX4JATZ0101
	RES CARBON FILM 1/4W J 100 Ω	RCJ101PAK001
R404	CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
	RES CHIP 1608 1/10W J 0 Ω	RRXA000YF002
R405	CHIP RES. 1/10W J 47k Ω or	RRXAJR5Z0473
	RES CHIP 1608 1/10W J 47k Ω	RRXA473YF002
R406	CHIP RES. 1/10W J 22k Ω or	RRXAJR5Z0223
	RES CHIP 1608 1/10W J 22k Ω	RRXA223YF002
R407	CHIP RES. 1/10W J 5.6k Ω or	RRXAJR5Z0562
	RES CHIP 1608 1/10W J 5.6k Ω	RRXA562YF002
R408	CHIP RES. 1/10W J 12k Ω or	RRXAJR5Z0123
	RES CHIP 1608 1/10W J 12k Ω	RRXA123YF002
R409	CHIP RES. 1/10W J 5.6k Ω or	RRXAJR5Z0562
	RES CHIP 1608 1/10W J 5.6k Ω	RRXA562YF002
R410	CHIP RES. 1/10W J 1k Ω or	RRXAJR5Z0102
	RES CHIP 1608 1/10W J 1.0k Ω	RRXA102YF002
R411	CHIP RES. 1/10W J 27k Ω or	RRXAJR5Z0273
	RES CHIP 1608 1/10W J 27k Ω	RRXA273YF002
R412	CHIP RES. 1/10W J 120 Ω or	RRXAJR5Z0121
	RES CHIP 1608 1/10W J 120 Ω	RRXA121YF002
R413	CHIP RES. 1/10W J 330k Ω or	RRXAJR5Z0334
	RES CHIP 1608 1/10W J 330k Ω	RRXA334YF002
R414	CHIP RES. 1/10W J 12k Ω or	RRXAJR5Z0123
	RES CHIP 1608 1/10W J 12k Ω	RRXA123YF002

Ref. No.	Description	Part No.
R415	CHIP RES. 1/10W J 1.8k Ω or	RRXAJR5Z0182
	RES CHIP 1608 1/10W J 1.8k Ω	RRXA182YF002
R416	CHIP RES. 1/10W J 560 Ω or	RRXAJR5Z0561
	RES CHIP 1608 1/10W J 560 Ω	RRXA561YF002
R417	CHIP RES. 1/10W J 2.2k Ω or	RRXAJR5Z0222
	RES CHIP 1608 1/10W J 2.2k Ω	RRXA222YF002
R418	CHIP RES. 1/10W J 12k Ω or	RRXAJR5Z0123
	RES CHIP 1608 1/10W J 12k Ω	RRXA123YF002
R419	CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
	RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R420	CHIP RES. 1/10W J 4.7k Ω or	RRXAJR5Z0472
	RES CHIP 1608 1/10W J 4.7k Ω	RRXA472YF002
R421	CHIP RES. 1/10W J 4.7k Ω or	RRXAJR5Z0472
	RES CHIP 1608 1/10W J 4.7k Ω	RRXA472YF002
R451	CHIP RES. 1/10W J 5.6k Ω or	RRXAJR5Z0562
	RES CHIP 1608 1/10W J 5.6k Ω	RRXA562YF002
R452	CHIP RES. 1/10W J 22k Ω or	RRXAJR5Z0223
	RES CHIP 1608 1/10W J 22k Ω	RRXA223YF002
R462	CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
	RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R463	CHIP RES. 1/10W J 470 Ω or	RRXAJR5Z0471
	RES CHIP 1608 1/10W J 470 Ω	RRXA471YF002
R464	CHIP RES. 1/10W J 3.3k Ω or	RRXAJR5Z0332
	RES CHIP 1608 1/10W J 3.3k Ω	RRXA332YF002
R465	CHIP RES. 1/10W J 5.6k Ω or	RRXAJR5Z0562
	RES CHIP 1608 1/10W J 5.6k Ω	RRXA562YF002
R466	CHIP RES. 1/10W J 8.2k Ω or	RRXAJR5Z0822
	RES CHIP 1608 1/10W J 8.2k Ω	RRXA822YF002
R469	CHIP RES. 1/10W J 22k Ω or	RRXAJR5Z0223
	RES CHIP 1608 1/10W J 22k Ω	RRXA223YF002
R470	CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
	RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R479	CHIP RES. 1/10W J 33 Ω or	RRXAJR5Z0330
	RES CHIP 1608 1/10W J 33 Ω	RRXA330YF002
R480	CARBON RES. 1/4W J 100 Ω or	RCX4JATZ0101
	RES CARBON FILM 1/4W J 100 Ω	RCJ101PAK001
R481	CHIP RES. 1/10W J 33 Ω or	RRXAJR5Z0330
	RES CHIP 1608 1/10W J 33 Ω	RRXA330YF002
R482	CHIP RES. 1/10W J 100 Ω or	RRXAJR5Z0101
	RES CHIP 1608 1/10W J 100 Ω	RRXA101YF002
R483	CHIP RES. 1/10W J 22k Ω or	RRXAJR5Z0223
	RES CHIP 1608 1/10W J 22k Ω	RRXA223YF002
R484	CHIP RES. 1/10W J 6.8k Ω or	RRXAJR5Z0682
	RES CHIP 1608 1/10W J 6.8k Ω	RRXA682YF002
R485	CHIP RES. 1/10W J 100k Ω or	RRXAJR5Z0104
	RES CHIP 1608 1/10W J 100k Ω	RRXA104YF002
R486	CHIP RES. 1/10W J 100k Ω or	RRXAJR5Z0104
	RES CHIP 1608 1/10W J 100k Ω	RRXA104YF002
R509	CHIP RES. 1/10W J 180 Ω or	RRXAJR5Z0181
	RES CHIP 1608 1/10W J 180 Ω	RRXA181YF002
R510	CHIP RES. 1/10W J 47k Ω or	RRXAJR5Z0473
	RES CHIP 1608 1/10W J 47k Ω	RRXA473YF002
R511	CARBON RES. 1/6W G 3.6k Ω or	RCX6GATZ0362
	CARBON RES. 1/4W G 3.6k Ω or	RCX4GATZ0362
	RES CARBON FILM 1/4W G 3.6k Ω	RCG362PAK001
R512	CHIP RES. 1/10W J 68k Ω or	RRXAJR5Z0683
	RES CHIP 1608 1/10W J 68k Ω	RRXA683YF002
R513	CHIP RES. 1/10W J 33k Ω or	RRXAJR5Z0333
	RES CHIP 1608 1/10W J 33k Ω	RRXA333YF002
R514	CARBON RES. 1/6W G 10k Ω or	RCX6GATZ0103
	CARBON RES. 1/4W G 10k Ω or	RCX4GATZ0103
	RES CARBON FILM 1/4W G 10k Ω	RCG103PAK001
R516	CARBON RES. 1/6W G 470 Ω or	RCX6GATZ0471
	CARBON RES. 1/4W G 470 Ω or	RCX4GATZ0471
	RES CARBON FILM 1/4W G 470 Ω	RCG471PAK001
R517	CARBON RES. 1/4W J 270 Ω or	RCX4JATZ0271
	RES CARBON FILM 1/4W J 270 Ω	RCJ271PAK001

Ref. No.	Description	Part No.
R519	CARBON RES. 1/6W G 22k Ω or	RCX6GATZ0223
	CARBON RES. 1/4W G 22k Ω or	RCX4GATZ0223
	RES CARBON FILM 1/4W G 22k Ω	RCG223PAK001
R523	CARBON RES. 1/6W G 1.5k Ω or	RCX6GATZ0152
	CARBON RES. 1/4W G 1.5k Ω or	RCX4GATZ0152
	RES CARBON FILM 1/4W G 1.5k Ω	RCG152PAK001
R525	CHIP RES. 1/10W J 390k Ω or	RRXAJR5Z0394
	RES CHIP 1608 1/10W J 390k Ω	RRXA394YF002
R526	CARBON RES. 1/6W J 390k Ω or	RCX6JATZ0394
	CARBON RES. 1/4W J 390k Ω or	RCX4JATZ0394
	RES CARBON FILM 1/4W J 390k Ω	RCJ394PAK001
R528	CARBON RES. 1/6W G 4.7k Ω or	RCX6GATZ0472
	CARBON RES. 1/4W G 4.7k Ω or	RCX4GATZ0472
	RES CARBON FILM 1/4W G 4.7k Ω	RCG472PAK001
R536	CHIP RES. 1/10W J 1.8k Ω or	RRXAJR5Z0182
	RES CHIP 1608 1/10W J 1.8k Ω	RRXA182YF002
R537	CHIP RES. 1/10W J 680 Ω or	RRXAJR5Z0681
	RES CHIP 1608 1/10W J 680 Ω	RRXA681YF002
R539	CHIP RES. 1/10W J 5.6k Ω or	RRXAJR5Z0562
	RES CHIP 1608 1/10W J 5.6k Ω	RRXA562YF002
R540	CHIP RES. 1/10W J 5.6k Ω or	RRXAJR5Z0562
	RES CHIP 1608 1/10W J 5.6k Ω	RRXA562YF002
R541	CHIP RES. 1/10W J 18k Ω or	RRXAJR5Z0183
	RES CHIP 1608 1/10W J 18k Ω	RRXA183YF002
R542	CARBON RES. 1/6W J 5.6k Ω or	RCX6JATZ0562
	CARBON RES. 1/4W J 5.6k Ω or	RCX4JATZ0562
	RES CARBON FILM 1/4W J 5.6k Ω	RCJ562PAK001
R543	CARBON RES. 1/4W J 1k Ω or	RCX4JATZ0102
	RES CARBON FILM 1/4W J 1.0k Ω	RCJ102PAK001
R544	CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
	RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R545	CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
	RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R546	CHIP RES. 1/10W J 1k Ω or	RRXAJR5Z0102
	RES CHIP 1608 1/10W J 1.0k Ω	RRXA102YF002
R567	CHIP RES. 1/10W J 39k Ω or	RRXAJR5Z0393
	RES CHIP 1608 1/10W J 39k Ω	RRXA393YF002
R568	CHIP RES. 1/10W J 220k Ω or	RRXAJR5Z0224
	RES CHIP 1608 1/10W J 220k Ω	RRXA224YF002
R569	CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
	RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R570	CARBON RES. 1/6W J 47k Ω or	RCX6JATZ0473
	CARBON RES. 1/4W J 47k Ω or	RCX4JATZ0473
	RES CARBON FILM 1/4W J 47k Ω	RCJ473PAK001
R572	CHIP RES. 1/10W J 1k Ω or	RRXAJR5Z0102
	RES CHIP 1608 1/10W J 1.0k Ω	RRXA102YF002
R574	CHIP RES. 1/10W J 1k Ω or	RRXAJR5Z0102
	RES CHIP 1608 1/10W J 1.0k Ω	RRXA102YF002
R575	CHIP RES. 1/10W J 330k Ω or	RRXAJR5Z0334
	RES CHIP 1608 1/10W J 330k Ω	RRXA334YF002
R577	CHIP RES. 1/10W J 1.5k Ω or	RRXAJR5Z0152
	RES CHIP 1608 1/10W J 1.5k Ω	RRXA152YF002
R578	CHIP RES. 1/10W J 1k Ω or	RRXAJR5Z0102
	RES CHIP 1608 1/10W J 1.0k Ω	RRXA102YF002
R582	CHIP RES. 1/10W J 470k Ω or	RRXAJR5Z0474
	RES CHIP 1608 1/10W J 470k Ω	RRXA474YF002
R585	CHIP RES. 1/10W J 2k Ω or	RRXAJR5Z0202
	RES CHIP 1608 1/10W J 2.0k Ω	RRXA202YF002
R586	CHIP RES. 1/10W J 1k Ω or	RRXAJR5Z0102
	RES CHIP 1608 1/10W J 1.0k Ω	RRXA102YF002
R588	CHIP RES. 1/10W J 470 Ω or	RRXAJR5Z0471
	RES CHIP 1608 1/10W J 470 Ω	RRXA471YF002
R589	CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
	RES CHIP 1608 1/10W J 0 Ω	RRXA000YF002
R618	CHIP RES. 1/10W J 100k Ω or	RRXAJR5Z0104
	RES CHIP 1608 1/10W J 100k Ω	RRXA104YF002
R624	CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103

Ref. No.	Description	Part No.
	RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R625	CHIP RES. 1/10W J 1.8k Ω or	RRXAJR5Z0182
	RES CHIP 1608 1/10W J 1.8k Ω	RRXA182YF002
R626	CHIP RES. 1/10W J 1k Ω or	RRXAJR5Z0102
	RES CHIP 1608 1/10W J 1.0k Ω	RRXA102YF002
R627	CHIP RES. 1/10W J 1.2k Ω or	RRXAJR5Z0122
	RES CHIP 1608 1/10W J 1.2k Ω	RRXA122YF002
R628	CHIP RES. 1/10W J 1.5k Ω or	RRXAJR5Z0152
	RES CHIP 1608 1/10W J 1.5k Ω	RRXA152YF002
R629	CHIP RES. 1/10W J 2.2k Ω or	RRXAJR5Z0222
	RES CHIP 1608 1/10W J 2.2k Ω	RRXA222YF002
R643	CHIP RES. 1/10W J 100 Ω or	RRXAJR5Z0101
	RES CHIP 1608 1/10W J 100 Ω	RRXA101YF002
R644	CHIP RES. 1/10W J 100 Ω or	RRXAJR5Z0101
	RES CHIP 1608 1/10W J 100 Ω	RRXA101YF002
R645	CHIP RES. 1/10W J 3.3k Ω or	RRXAJR5Z0332
	RES CHIP 1608 1/10W J 3.3k Ω	RRXA332YF002
R646	CHIP RES. 1/10W J 3.3k Ω or	RRXAJR5Z0332
	RES CHIP 1608 1/10W J 3.3k Ω	RRXA332YF002
R647	CHIP RES. 1/10W J 560 Ω or	RRXAJR5Z0561
	RES CHIP 1608 1/10W J 560 Ω	RRXA561YF002
R648	CHIP RES. 1/10W J 1k Ω or	RRXAJR5Z0102
	RES CHIP 1608 1/10W J 1.0k Ω	RRXA102YF002
R649	CHIP RES. 1/10W J 560 Ω or	RRXAJR5Z0561
	RES CHIP 1608 1/10W J 560 Ω	RRXA561YF002
R650	CHIP RES. 1/10W J 1k Ω or	RRXAJR5Z0102
	RES CHIP 1608 1/10W J 1.0k Ω	RRXA102YF002
R651	CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
	RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R653	CHIP RES. 1/10W J 2.7k Ω or	RRXAJR5Z0272
	RES CHIP 1608 1/10W J 2.7k Ω	RRXA272YF002
R654	CHIP RES. 1/10W J 4.7k Ω or	RRXAJR5Z0472
	RES CHIP 1608 1/10W J 4.7k Ω	RRXA472YF002
R655	CHIP RES. 1/10W J 2.7k Ω or	RRXAJR5Z0272
	RES CHIP 1608 1/10W J 2.7k Ω	RRXA272YF002
R656	CHIP RES. 1/10W J 4.7k Ω or	RRXAJR5Z0472
	RES CHIP 1608 1/10W J 4.7k Ω	RRXA472YF002
R657	CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
	RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R663	CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
	RES CHIP 1608 1/10W J 0 Ω	RRXA000YF002
R664	CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
	RES CHIP 1608 1/10W J 0 Ω	RRXA000YF002
R665	CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
	RES CHIP 1608 1/10W J 0 Ω	RRXA000YF002
R670	CHIP RES. 1/10W J 1k Ω or	RRXAJR5Z0102
	RES CHIP 1608 1/10W J 1.0k Ω	RRXA102YF002
R700	CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
	RES CHIP 1608 1/10W J 0 Ω	RRXA000YF002
R701	CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
	RES CHIP 1608 1/10W J 0 Ω	RRXA000YF002
R702	CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
	RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R703	CHIP RES. 1/10W J 2.7k Ω or	RRXAJR5Z0272
	RES CHIP 1608 1/10W J 2.7k Ω	RRXA272YF002
R704	CHIP RES. 1/10W J 5.6k Ω or	RRXAJR5Z0562
	RES CHIP 1608 1/10W J 5.6k Ω	RRXA562YF002
R705	CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
	RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R706	CHIP RES. 1/10W J 100 Ω or	RRXAJR5Z0101
	RES CHIP 1608 1/10W J 100 Ω	RRXA101YF002
R709	CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
	RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R1493	CARBON RES. 1/4W J 1.5k Ω or	RCX4JATZ0152
	RES CARBON FILM 1/4W J 1.5k Ω	RCJ152PAK001
R1494	CARBON RES. 1/4W J 2.2k Ω or	RCX4JATZ0222
	RES CARBON FILM 1/4W J 2.2k Ω	RCJ222PAK001

Ref. No.	Description	Part No.
R1495	CARBON RES. 1/4W J 2.2k Ω or	RCX4JATZ0222
	RES CARBON FILM 1/4W J 2.2k Ω	RCJ222PAK001
R1501	CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
	RES CHIP 1608 1/10W J 0 Ω	RRXA000YF002
R1565	WIRE CP STP-S-0.60 or	XZ40F0REN002
	WIRE CP CP0.56	XZ40F0XRC001
R1584	CHIP RES. 1/10W J 22k Ω or	RRXAJR5Z0223
	RES CHIP 1608 1/10W J 22k Ω	RRXA223YF002
R1588	CHIP RES. 1/10W J 2.2k Ω or	RRXAJR5Z0222
	RES CHIP 1608 1/10W J 2.2k Ω	RRXA222YF002
R1594	WIRE CP STP-S-0.60 or	XZ40F0REN002
	WIRE CP CP0.56	XZ40F0XRC001
R1595	CARBON RES. 1/4W J 390 Ω or	RCX4JATZ0391
	RES CARBON FILM 1/4W J 390 Ω	RCJ391PAK001
R1600	CARBON RES. 1/4W J 100 Ω or	RCX4JATZ0101
	RES CARBON FILM 1/4W J 100 Ω	RCJ101PAK001
R1601	CARBON RES. 1/4W J 100 Ω or	RCX4JATZ0101
	RES CARBON FILM 1/4W J 100 Ω	RCJ101PAK001
R1604	CARBON RES. 1/6W J 47k Ω or	RCX6JATZ0473
	CARBON RES. 1/4W J 47k Ω or	RCX4JATZ0473
	RES CARBON FILM 1/4W J 47k Ω	RCJ473PAK001
R1605	CARBON RES. 1/4W J 680 Ω or	RCX4JATZ0681
	RES CARBON FILM 1/4W J 680 Ω	RCJ681PAK001
R1606	CARBON RES. 1/4W J 680 Ω or	RCX4JATZ0681
	RES CARBON FILM 1/4W J 680 Ω	RCJ681PAK001
R1608	CHIP RES. 1/10W F 240 Ω or	RRXAFR5H2400
	CHIP RES.(1608) 1/10W F 240 Ω or	RRXAFR5Z2400
	RES CHIP 1608 1/10W F 240 Ω	RTW2400YF002
R1609	CHIP RES. 1/10W F 220 Ω or	RRXAFR5H2200
	CHIP RES.(1608) 1/10W F 220 Ω or	RRXAFR5Z2200
	RES CHIP 1608 1/10W F 220 Ω	RTW2200YF002
R1610	CHIP RES. 1/10W F 220 Ω or	RRXAFR5H2200
	CHIP RES.(1608) 1/10W F 220 Ω or	RRXAFR5Z2200
	RES CHIP 1608 1/10W F 220 Ω	RTW2200YF002
R1611	CHIP RES. 1/10W F 220 Ω or	RRXAFR5H2200
	CHIP RES.(1608) 1/10W F 220 Ω or	RRXAFR5Z2200
	RES CHIP 1608 1/10W F 220 Ω	RTW2200YF002
R1612	CHIP RES. 1/10W F 220 Ω or	RRXAFR5H2200
	CHIP RES.(1608) 1/10W F 220 Ω or	RRXAFR5Z2200
	RES CHIP 1608 1/10W F 220 Ω	RTW2200YF002
R1614	CARBON RES. 1/4W J 22k Ω or	RCX4JATZ0223
	RES CARBON FILM 1/4W J 22k Ω	RCJ223PAK001
R1617	CHIP RES. 1/10W J 3.9k Ω or	RRXAJR5Z0392
	RES CHIP 1608 1/10W J 3.9k Ω	RRXA392YF002
R1618	CHIP RES. 1/10W J 8.2k Ω or	RRXAJR5Z0822
	RES CHIP 1608 1/10W J 8.2k Ω	RRXA822YF002
R1619	CHIP RES. 1/10W J 3.9k Ω or	RRXAJR5Z0392
	RES CHIP 1608 1/10W J 3.9k Ω	RRXA392YF002
R1620	CARBON RES. 1/4W J 2.7k Ω or	RCX4JATZ0272
	RES CARBON FILM 1/4W J 2.7k Ω	RCJ272PAK001
R1621	CARBON RES. 1/4W J 2.7k Ω or	RCX4JATZ0272
	RES CARBON FILM 1/4W J 2.7k Ω	RCJ272PAK001
R1622	CARBON RES. 1/4W J 2.7k Ω or	RCX4JATZ0272
	RES CARBON FILM 1/4W J 2.7k Ω	RCJ272PAK001
R1623	CHIP RES. 1/10W J 3k Ω or	RRXAJR5Z0302
	RES CHIP 1608 1/10W J 3.0k Ω	RRXA302YF002
R1624	CHIP RES. 1/10W J 3k Ω or	RRXAJR5Z0302
	RES CHIP 1608 1/10W J 3.0k Ω	RRXA302YF002
R1625	CHIP RES. 1/10W J 470 Ω or	RRXAJR5Z0471
	RES CHIP 1608 1/10W J 470 Ω	RRXA471YF002
R1626	CHIP RES. 1/10W J 1k Ω or	RRXAJR5Z0102
	RES CHIP 1608 1/10W J 1.0k Ω	RRXA102YF002
R1627	CARBON RES. 1/4W J 22k Ω or	RCX4JATZ0223
	RES CARBON FILM 1/4W J 22k Ω	RCJ223PAK001
R1632	CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
	RES CHIP 1608 1/10W J 0 Ω	RRXA000YF002
R1634	CARBON RES. 1/4W J 6.8k Ω or	RCX4JATZ0682
	RES CARBON FILM 1/4W J 6.8k Ω	RCJ682PAK001
R1635	CARBON RES. 1/4W J 6.8k Ω or	RCX4JATZ0682
	RES CARBON FILM 1/4W J 6.8k Ω	RCJ682PAK001
R1636	CARBON RES. 1/4W J 820 Ω or	RCX4JATZ0821
	RES CARBON FILM 1/4W J 820 Ω	RCJ821PAK001
R1637	CARBON RES. 1/4W J 1.5k Ω or	RCX4JATZ0152
	RES CARBON FILM 1/4W J 1.5k Ω	RCJ152PAK001
R1638	CARBON RES. 1/4W J 150 Ω or	RCX4JATZ0151
	RES CARBON FILM 1/4W J 150 Ω	RCJ151PAK001
R1642	CHIP RES. 1/10W J 1k Ω or	RRXAJR5Z0102
	RES CHIP 1608 1/10W J 1.0k Ω	RRXA102YF002
R1643	CARBON RES. 1/4W J 180 Ω or	RCX4JATZ0181
	RES CARBON FILM 1/4W J 180 Ω	RCJ181PAK001
R1646	CHIP RES. 1/10W J 470 Ω or	RRXAJR5Z0471
	RES CHIP 1608 1/10W J 470 Ω	RRXA471YF002
R1647	CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
	RES CHIP 1608 1/10W J 0 Ω	RRXA000YF002
R1648	CARBON RES. 1/4W J 180 Ω or	RCX4JATZ0181
	RES CARBON FILM 1/4W J 180 Ω	RCJ181PAK001
R1650	CHIP RES. 1/10W F 2k Ω or	RRXAFR5H2001
	CHIP RES. 1/10W F 2k Ω or	RRXAFR5Z2001
	RES CHIP 1608 1/10W F 2.00k Ω	RTW2001YF002
R1652	CHIP RES. 1/10W F 2k Ω or	RRXAFR5H2001
	CHIP RES. 1/10W F 2k Ω or	RRXAFR5Z2001
	RES CHIP 1608 1/10W F 2.00k Ω	RTW2001YF002
R1654	CARBON RES. 1/6W G 1k Ω or	RCX6GATZ0102
	CARBON RES. 1/4W G 1k Ω or	RCX4GATZ0102
	RES CARBON FILM 1/4W G 1.0k Ω	RCG102PAK001
R1655	CHIP RES. 1/10W F 1.5k Ω or	RRXAFR5H1501
	CHIP RES. 1/10W F 1.5k Ω or	RRXAFR5Z1501
	RES CHIP 1608 1/10W F 1.50k Ω	RTW1501YF002
R1656	CARBON RES. 1/4W J 1k Ω or	RCX4JATZ0102
	RES CARBON FILM 1/4W J 1.0k Ω	RCJ102PAK001
R1666	CARBON RES. 1/4W J 6.8 Ω or	RCX4JATZ06R8
	RES CARBON FILM 1/4W J 6.8 Ω	RCJ6R8PAK001
R1667	CARBON RES. 1/4W J 6.8 Ω or	RCX4JATZ06R8
	RES CARBON FILM 1/4W J 6.8 Ω	RCJ6R8PAK001
R1681	CHIP RES. 1/10W J 220 Ω or	RRXAJR5Z0221
	RES CHIP 1608 1/10W J 220 Ω	RRXA221YF002
R1684	CHIP RES. 1/10W J 6.8k Ω or	RRXAJR5Z0682
	RES CHIP 1608 1/10W J 6.8k Ω	RRXA682YF002
R1687	CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
	RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R1688	CHIP RES. 1/10W J 100 Ω or	RRXAJR5Z0101
	RES CHIP 1608 1/10W J 100 Ω	RRXA101YF002
R1689	CARBON RES. 1/4W J 820 Ω or	RCX4JATZ0821
	RES CARBON FILM 1/4W J 820 Ω	RCJ821PAK001
R1690	CHIP RES. 1/10W J 100k Ω or	RRXAJR5Z0104
	RES CHIP 1608 1/10W J 100k Ω	RRXA104YF002
R1691	CHIP RES. 1/10W J 680 Ω or	RRXAJR5Z0681
	RES CHIP 1608 1/10W J 680 Ω	RRXA681YF002
R1692	CHIP RES. 1/10W J 6.8k Ω or	RRXAJR5Z0682
	RES CHIP 1608 1/10W J 6.8k Ω	RRXA682YF002
R1694	CHIP RES. 1/10W J 2.2k Ω or	RRXAJR5Z0222
	RES CHIP 1608 1/10W J 2.2k Ω	RRXA222YF002
R1695	CHIP RES. 1/10W F 3.6k Ω or	RRXAFR5H3601
	CHIP RES.(1608) 1/10W F 3.6k Ω or	RRXAFR5Z3601
	RES CHIP 1608 1/10W F 3.60k Ω	RTW3601YF002
R1696	CHIP RES. 1/10W F 11k Ω or	RRXAFR5H1102
	CHIP RES. 1/10W F 11k Ω or	RRXAFR5Z1102
	RES CHIP 1608 1/10W F 11.0k Ω	RTW1102YF002
R1697	CHIP RES. 1/10W F 15k Ω or	RRXAFR5H1502
	CHIP RES. 1/10W F 15k Ω or	RRXAFR5Z1502
	RES CHIP 1608 1/10W F 15.0k Ω	RTW1502YF002
R1698	CHIP RES. 1/10W F 3.6k Ω or	RRXAFR5H3601
	CHIP RES.(1608) 1/10W F 3.6k Ω or	RRXAFR5Z3601
	RES CHIP 1608 1/10W F 3.60k Ω	RTW3601YF002

Ref. No.	Description	Part No.
R1699	CHIP RES. 1/10W F 11k Ω or	RRXAFR5H1102
	CHIP RES. 1/10W F 11k Ω or	RRXAFR5Z1102
	RES CHIP 1608 1/10W F 11.0k Ω	RTW1102YF002
R1700	CHIP RES. 1/10W F 15k Ω or	RRXAFR5H1502
	CHIP RES. 1/10W F 15k Ω or	RRXAFR5Z1502
	RES CHIP 1608 1/10W F 15.0k Ω	RTW1502YF002
R1701	CARBON RES. 1/4W J 560 Ω or	RCX4JATZ0561
	RES CARBON FILM 1/4W J 560 Ω	RCJ561PAK001
R1703	CHIP RES. 1/10W J 100k Ω or	RRXAJR5Z0104
	RES CHIP 1608 1/10W J 100k Ω	RRXA104YF002
R1704	CHIP RES. 1/10W J 820 Ω or	RRXAJR5Z0821
	RES CHIP 1608 1/10W J 820 Ω	RRXA821YF002
R1705	CHIP RES. 1/10W J 100k Ω or	RRXAJR5Z0104
	RES CHIP 1608 1/10W J 100k Ω	RRXA104YF002
R1706	CHIP RES. 1/10W J 820 Ω or	RRXAJR5Z0821
	RES CHIP 1608 1/10W J 820 Ω	RRXA821YF002
R1708	CARBON RES. 1/4W J 75 Ω or	RCX4JATZ0750
	RES CARBON FILM 1/4W J 75 Ω	RCJ750PAK001
R1709	CHIP RES. 1/10W J 22k Ω or	RRXAJR5Z0223
	RES CHIP 1608 1/10W J 22k Ω	RRXA223YF002
R1710	CARBON RES. 1/6W J 3.3k Ω or	RCX6JATZ0332
	CARBON RES. 1/4W J 3.3k Ω or	RCX4JATZ0332
	RES CARBON FILM 1/4W J 3.3k Ω	RCJ332PAK001
R1711	CHIP RES. 1/10W J 22k Ω or	RRXAJR5Z0223
	RES CHIP 1608 1/10W J 22k Ω	RRXA223YF002
R1712	CHIP RES. 1/10W J 1.8k Ω or	RRXAJR5Z0182
	RES CHIP 1608 1/10W J 1.8k Ω	RRXA182YF002
R1713	CHIP RES. 1/10W J 2.2k Ω or	RRXAJR5Z0222
	RES CHIP 1608 1/10W J 2.2k Ω	RRXA222YF002
R1714	CHIP RES. 1/10W J 2.2k Ω or	RRXAJR5Z0222
	RES CHIP 1608 1/10W J 2.2k Ω	RRXA222YF002
R1715	CHIP RES. 1/10W J 22k Ω or	RRXAJR5Z0223
	RES CHIP 1608 1/10W J 22k Ω	RRXA223YF002
R1717	CARBON RES. 1/4W J 220 Ω or	RCX4JATZ0221
	RES CARBON FILM 1/4W J 220 Ω	RCJ221PAK001
R1718	CARBON RES. 1/4W J 75 Ω or	RCX4JATZ0750
	RES CARBON FILM 1/4W J 75 Ω	RCJ750PAK001
R1719	CHIP RES. 1/10W J 75 Ω or	RRXAJR5Z0750
	RES CHIP 1608 1/10W J 75 Ω	RRXA750YF002
R1720	CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
	RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R1721	CARBON RES. 1/4W J 15k Ω or	RCX4JATZ0153
	RES CARBON FILM 1/4W J 15k Ω	RCJ153PAK001
R1724	CHIP RES. 1/10W J 1k Ω or	RRXAJR5Z0102
	RES CHIP 1608 1/10W J 1.0k Ω	RRXA102YF002
R1725	CHIP RES. 1/10W J 220 Ω or	RRXAJR5Z0221
	RES CHIP 1608 1/10W J 220 Ω	RRXA221YF002
R1726	CHIP RES. 1/10W J 75 Ω or	RRXAJR5Z0750
	RES CHIP 1608 1/10W J 75 Ω	RRXA750YF002
R1728	CHIP RES. 1/10W J 100k Ω or	RRXAJR5Z0104
	RES CHIP 1608 1/10W J 100k Ω	RRXA104YF002
R1729	CHIP RES. 1/10W J 1k Ω or	RRXAJR5Z0102
	RES CHIP 1608 1/10W J 1.0k Ω	RRXA102YF002
R1730	CHIP RES. 1/10W J 1k Ω or	RRXAJR5Z0102
	RES CHIP 1608 1/10W J 1.0k Ω	RRXA102YF002
R1731	CARBON RES. 1/4W J 470 Ω or	RCX4JATZ0471
	RES CARBON FILM 1/4W J 470 Ω	RCJ471PAK001
R1732	CARBON RES. 1/4W J 470 Ω or	RCX4JATZ0471
	RES CARBON FILM 1/4W J 470 Ω	RCJ471PAK001
R1733	CHIP RES. 1/10W J 1k Ω or	RRXAJR5Z0102
	RES CHIP 1608 1/10W J 1.0k Ω	RRXA102YF002
R1734	CARBON RES. 1/4W J 75 Ω or	RCX4JATZ0750
	RES CARBON FILM 1/4W J 75 Ω	RCJ750PAK001
R1735	CHIP RES. 1/10W J 1k Ω or	RRXAJR5Z0102
	RES CHIP 1608 1/10W J 1.0k Ω	RRXA102YF002
R1736	CARBON RES. 1/4W J 220 Ω or	RCX4JATZ0221
	RES CARBON FILM 1/4W J 220 Ω	RCJ221PAK001

Ref. No.	Description	Part No.
R1737	CARBON RES. 1/4W J 75 Ω or	RCX4JATZ0750
	RES CARBON FILM 1/4W J 75 Ω	RCJ750PAK001
R1738	CARBON RES. 1/4W J 75 Ω or	RCX4JATZ0750
	RES CARBON FILM 1/4W J 75 Ω	RCJ750PAK001
R1739	CARBON RES. 1/4W J 100 Ω or	RCX4JATZ0101
	RES CARBON FILM 1/4W J 100 Ω	RCJ101PAK001
R1742	CHIP RES. 1/10W J 75 Ω or	RRXAJR5Z0750
	RES CHIP 1608 1/10W J 75 Ω	RRXA750YF002
R1743	CHIP RES. 1/10W J 75 Ω or	RRXAJR5Z0750
	RES CHIP 1608 1/10W J 75 Ω	RRXA750YF002
R1744	CHIP RES. 1/10W J 75 Ω or	RRXAJR5Z0750
	RES CHIP 1608 1/10W J 75 Ω	RRXA750YF002
R1748	CARBON RES. 1/6W J 330 Ω or	RCX6JATZ0331
	CARBON RES. 1/4W J 330 Ω or	RCX4JATZ0331
	RES CARBON FILM 1/4W J 330 Ω	RCJ331PAK001
R1749	CARBON RES. 1/6W J 330 Ω or	RCX6JATZ0331
	CARBON RES. 1/4W J 330 Ω or	RCX4JATZ0331
	RES CARBON FILM 1/4W J 330 Ω	RCJ331PAK001
R1750	CHIP RES. 1/10W J 220 Ω or	RRXAJR5Z0221
	RES CHIP 1608 1/10W J 220 Ω	RRXA221YF002
R1751	CHIP RES. 1/10W J 220 Ω or	RRXAJR5Z0221
	RES CHIP 1608 1/10W J 220 Ω	RRXA221YF002
R1753	WIRE CP STP-S-0.60 or	XZ40F0REN002
	WIRE CP CP0.56	XZ40F0XRC001
R1754	WIRE CP STP-S-0.60 or	XZ40F0REN002
	WIRE CP CP0.56	XZ40F0XRC001
R1755	CHIP RES. 1/10W J 1M Ω or	RRXAJR5Z0105
	RES CHIP 1608 1/10W J 1.0M Ω	RRXA105YF002
R1759	CARBON RES. 1/6W J 330 Ω or	RCX6JATZ0331
	CARBON RES. 1/4W J 330 Ω or	RCX4JATZ0331
	RES CARBON FILM 1/4W J 330 Ω	RCJ331PAK001
R1760	CHIP RES. 1/10W J 10 Ω or	RRXAJR5Z0100
	RES CHIP 1608 1/10W J 10 Ω	RRXA100YF002
R1761	CHIP RES. 1/10W J 10 Ω or	RRXAJR5Z0100
	RES CHIP 1608 1/10W J 10 Ω	RRXA100YF002
R1762	CHIP RES.(1608) 1/10W F 68 Ω or	RRXAFR5H68R0
	CHIP RES.(1608) 1/10W F 68 Ω or	RRXAFR5Z68R0
	RES CHIP 1608 1/10W F 68 Ω	RTW68R0YF002
R1763	CHIP RES.(1608) 1/10W F 68 Ω or	RRXAFR5H68R0
	CHIP RES.(1608) 1/10W F 68 Ω or	RRXAFR5Z68R0
	RES CHIP 1608 1/10W F 68 Ω	RTW68R0YF002
R1764	WIRE CP STP-S-0.60 or	XZ40F0REN002
	WIRE CP CP0.56	XZ40F0XRC001
R1769	CHIP RES. 1/10W F 2k Ω or	RRXAFR5H2001
	CHIP RES. 1/10W F 2k Ω or	RRXAFR5Z2001
	RES CHIP 1608 1/10W F 2.00k Ω	RTW2001YF002
R1770	CHIP RES. 1/10W F 2k Ω or	RRXAFR5H2001
	CHIP RES. 1/10W F 2k Ω or	RRXAFR5Z2001
	RES CHIP 1608 1/10W F 2.00k Ω	RTW2001YF002
R1771	CHIP RES. 1/10W J 12k Ω or	RRXAJR5Z0123
	RES CHIP 1608 1/10W J 12k Ω	RRXA123YF002
R1772	CHIP RES. 1/10W J 12k Ω or	RRXAJR5Z0123
	RES CHIP 1608 1/10W J 12k Ω	RRXA123YF002
R1773	CHIP RES. 1/10W J 150 Ω or	RRXAJR5Z0151
	RES CHIP 1608 1/10W J 150 Ω	RRXA151YF002
R1777	CHIP RES. 1/10W J 4.7k Ω or	RRXAJR5Z0472
	RES CHIP 1608 1/10W J 4.7k Ω	RRXA472YF002
R1778	CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
	RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R1779	CHIP RES. 1/10W J 4.7k Ω or	RRXAJR5Z0472
	RES CHIP 1608 1/10W J 4.7k Ω	RRXA472YF002
R1780	CHIP RES. 1/10W J 47k Ω or	RRXAJR5Z0473
	RES CHIP 1608 1/10W J 47k Ω	RRXA473YF002
R1781	CHIP RES. 1/10W J 4.7k Ω or	RRXAJR5Z0472
	RES CHIP 1608 1/10W J 4.7k Ω	RRXA472YF002
R1782	CHIP RES. 1/10W J 470 Ω or	RRXAJR5Z0471
	RES CHIP 1608 1/10W J 470 Ω	RRXA471YF002

Ref. No.	Description	Part No.
R1783	CHIP RES. 1/10W J 75 Ω or	RRXAJR5Z0750
	RES CHIP 1608 1/10W J 75 Ω	RRXA750YF002
R1787	CHIP RES. 1/10W F 51.0 k Ω or	RRXAFR5H5102
	CHIP RES.(1608) 1/10W F 51k Ω or	RRXAFR5Z5102
	RES CHIP 1608 1/10W F 51.0k Ω	RTW5102YF002
R1789	CHIP RES. 1/10W F 51.0 k Ω or	RRXAFR5H5102
	CHIP RES.(1608) 1/10W F 51k Ω or	RRXAFR5Z5102
	RES CHIP 1608 1/10W F 51.0k Ω	RTW5102YF002
R1792	CHIP RES. 1/10W J 47k Ω or	RRXAJR5Z0473
	RES CHIP 1608 1/10W J 47k Ω	RRXA473YF002
R1800	CHIP RES. 1/10W J 1M Ω or	RRXAJR5Z0105
	RES CHIP 1608 1/10W J 1.0M Ω	RRXA105YF002
R1802	CARBON RES. 1/6W J 330 Ω or	RCX6JATZ0331
	CARBON RES. 1/4W J 330 Ω or	RCX4JATZ0331
	RES CARBON FILM 1/4W J 330 Ω	RCJ331PAK001
R1803	CARBON RES. 1/6W J 330 Ω or	RCX6JATZ0331
	CARBON RES. 1/4W J 330 Ω or	RCX4JATZ0331
	RES CARBON FILM 1/4W J 330 Ω	RCJ331PAK001
R1804	CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
	RES CHIP 1608 1/10W J 0 Ω	RRXA000YF002
R1805	CHIP RES. 1/10W J 560 Ω or	RRXAJR5Z0561
	RES CHIP 1608 1/10W J 560 Ω	RRXA561YF002
R1806	CHIP RES. 1/10W J 560 Ω or	RRXAJR5Z0561
	RES CHIP 1608 1/10W J 560 Ω	RRXA561YF002
R1807	CHIP RES. 1/10W J 390 Ω or	RRXAJR5Z0391
	RES CHIP 1608 1/10W J 390 Ω	RRXA391YF002
R1808	CHIP RES. 1/10W F 10k Ω or	RRXAFR5H1002
	CHIP RES. 1/10W F 10k Ω or	RRXAFR5Z1002
	RES CHIP 1608 1/10W F 10.0k Ω	RTW1002YF002
R1809	CHIP RES. 1/10W F 4.7k Ω or	RRXAFR5H4701
	CHIP RES.(1608) 1/10W F 4.7k Ω or	RRXAFR5Z4701
	RES CHIP 1608 1/10W F 4.70k Ω	RTW4701YF002
R1813	CHIP RES. 1/10W J 5.6k Ω or	RRXAJR5Z0562
	RES CHIP 1608 1/10W J 5.6k Ω	RRXA562YF002
R1814	CHIP RES. 1/10W J 5.6k Ω or	RRXAJR5Z0562
	RES CHIP 1608 1/10W J 5.6k Ω	RRXA562YF002
R1815	CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
	RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R1816	CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
	RES CHIP 1608 1/10W J 0 Ω	RRXA000YF002
R1817	CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
	RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R1818	CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
	RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R1820	CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
	RES CHIP 1608 1/10W J 0 Ω	RRXA000YF002
R1821	CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
	RES CHIP 1608 1/10W J 0 Ω	RRXA000YF002
R1824	CARBON RES. 1/6W J 4.7k Ω or	RCX6JATZ0472
	CARBON RES. 1/4W J 4.7k Ω or	RCX4JATZ0472
	RES CARBON FILM 1/4W J 4.7k Ω	RCJ472PAK001
R1825	CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
	RES CHIP 1608 1/10W J 0 Ω	RRXA000YF002
R1826	CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
	RES CHIP 1608 1/10W J 0 Ω	RRXA000YF002
R1827	CHIP RES. 1/10W J 100k Ω or	RRXAJR5Z0104
	RES CHIP 1608 1/10W J 100k Ω	RRXA104YF002
R1901	CHIP RES. 1/10W J 1k Ω or	RRXAJR5Z0102
	RES CHIP 1608 1/10W J 1.0k Ω	RRXA102YF002
R1902	CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
	RES CHIP 1608 1/10W J 0 Ω	RRXA000YF002
R1904	CHIP RES. 1/10W J 120k Ω or	RRXAJR5Z0124
	RES CHIP 1608 1/10W J 120k Ω	RRXA124YF002
R1905	CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
	RES CHIP 1608 1/10W J 0 Ω	RRXA000YF002
R1906	CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
	RES CHIP 1608 1/10W J 0 Ω	RRXA000YF002

Ref. No.	Description	Part No.
R1907	CHIP RES. 1/10W J 1.2k Ω or	RRXAJR5Z0122
	RES CHIP 1608 1/10W J 1.2k Ω	RRXA122YF002
	SWITCHES	
SW506	LEAF SWITCH MXS01830MVP0	SSC0101MCE03
SW507	SWITCH ROTARY SSS-53MD-1	SSR0106KB004
SW521	TACT SWITCH SKQSAF001A or	SST0101AL041
	TACT SWITCH KSM0614B or	SST0101HH013
	TACT SWITCH TC-1104(H=9.5)	SST0101DNG01
SW522	TACT SWITCH SKQSAF001A or	SST0101AL041
	TACT SWITCH KSM0614B or	SST0101HH013
	TACT SWITCH TC-1104(H=9.5)	SST0101DNG01
SW523	TACT SWITCH SKQSAF001A or	SST0101AL041
	TACT SWITCH KSM0614B or	SST0101HH013
	TACT SWITCH TC-1104(H=9.5)	SST0101DNG01
SW524	TACT SWITCH SKQSAF001A or	SST0101AL041
	TACT SWITCH KSM0614B or	SST0101HH013
	TACT SWITCH TC-1104(H=9.5)	SST0101DNG01
SW525	TACT SWITCH SKQSAF001A or	SST0101AL041
	TACT SWITCH KSM0614B or	SST0101HH013
	TACT SWITCH TC-1104(H=9.5)	SST0101DNG01
SW1501	TACT SWITCH SKQSAF001A or	SST0101AL041
	TACT SWITCH KSM0614B or	SST0101HH013
	TACT SWITCH TC-1104(H=9.5)	SST0101DNG01
SW1502	TACT SWITCH SKQSAF001A or	SST0101AL041
	TACT SWITCH KSM0614B or	SST0101HH013
	TACT SWITCH TC-1104(H=9.5)	SST0101DNG01
	MISCELLANEOUS	
B9	BUSH LED(F) H3700UD	0VM409508
B10	SHIELD ASSEMBLY(T3 PAL) E3B90ED	1VM425280
B16	DOUBLE SIDE TAPE HB200UD	0VM412870
B31	ROHM HOLDER H7770JD	0VM304573
FL601	FL 7-BT-310N	TVFD1C0FT056
JK1502	RCA JACK(SW) MSP-213V2-132 NI FE	JYRL030LY028
JK1504	RGB CONNECTOR MRC-021V-03 ABS(B11	JXGL210LY006
JK1505	RCA JACK MSP-213V1-652-B NI L	JXRL030LY116
JP5	WIRE CP STP-S-0.60 or	XZ40F0REN002
	WIRE CP CP0.56	XZ40F0XRC001
JP31	WIRE CP STP-S-0.60 or	XZ40F0REN002
	WIRE CP CP0.56	XZ40F0XRC001
JP32	WIRE CP STP-S-0.60 or	XZ40F0REN002
	WIRE CP CP0.56	XZ40F0XRC001
JP90	WIRE CP STP-S-0.60 or	XZ40F0REN002
	WIRE CP CP0.56	XZ40F0XRC001
JP121	WIRE CP STP-S-0.60 or	XZ40F0REN002
	WIRE CP CP0.56	XZ40F0XRC001
JP187	WIRE CP STP-S-0.60 or	XZ40F0REN002
	WIRE CP CP0.56	XZ40F0XRC001
JP237	WIRE CP STP-S-0.60 or	XZ40F0REN002
	WIRE CP CP0.56	XZ40F0XRC001
JP238	WIRE CP STP-S-0.60 or	XZ40F0REN002
	WIRE CP CP0.56	XZ40F0XRC001
JP240	WIRE CP STP-S-0.60 or	XZ40F0REN002
	WIRE CP CP0.56	XZ40F0XRC001
JP278	WIRE CP STP-S-0.60 or	XZ40F0REN002
	WIRE CP CP0.56	XZ40F0XRC001
JP304	WIRE CP STP-S-0.60 or	XZ40F0REN002
	WIRE CP CP0.56	XZ40F0XRC001
JP310	WIRE CP STP-S-0.60 or	XZ40F0REN002
	WIRE CP CP0.56	XZ40F0XRC001
JP328	WIRE CP STP-S-0.60 or	XZ40F0REN002
	WIRE CP CP0.56	XZ40F0XRC001
JP329	WIRE CP STP-S-0.60 or	XZ40F0REN002
	WIRE CP CP0.56	XZ40F0XRC001
JP340	WIRE CP STP-S-0.60 or	XZ40F0REN002
	WIRE CP CP0.56	XZ40F0XRC001
JP348	WIRE CP STP-S-0.60 or	XZ40F0REN002
	WIRE CP CP0.56	XZ40F0XRC001

Ref. No.	Description	Part No.
L2	SCREW P-TIGHT M3X8 BIND HEAD+	GBCP3080
L9	SCREW S-TIGHT M3X6 BIND HEAD+	GBJS3060
PS502	PHOTO INTERRUPTER RPI-302C70	QPWZP1302C70
RS1501	SENSOR REMOTE RECEIVER KSM-602LU2P or	USESJRSKK058
	REMOTE RECEIVER MIM-93M6DKF or	USESJRSUNT01
	SENSOR REMOTE RECEIVER PNA4811M00YF	USEJRS0MS001
TP301	WIRE CP STP-S-0.60 or	XZ40F0REN002
	WIRE CP CP0.56	XZ40F0XRC001
TP502	WIRE CP STP-S-0.60 or	XZ40F0REN002
	WIRE CP CP0.56	XZ40F0XRC001
TP503	WIRE CP STP-S-0.60 or	XZ40F0REN002
	WIRE CP CP0.56	XZ40F0XRC001
TP504	WIRE CP STP-S-0.60 or	XZ40F0REN002
	WIRE CP CP0.56	XZ40F0XRC001
TU1800	TUNER UNIT ENGF7710KF	UTUNDVTMS004
VR501	VOLUME ROTARY CARBON VZ066L1 B104 PB(F) or	VRCB104HH017
	CARBON P.O.T. VZ067TL1 B104 PB(F)	VRCB104HH014
W3	WIRE ASSEMBLY 30PIN FFC WX1E3N00-003	WX1E3N00-003
W8	WIRE ASSEMBLY 6PIN FFC WX1E9TK0-006	WX1E9TK0-006
W14	WIRE ASSEMBLY 5PIN FFC WX1E3TK0-010	WX1E3TK0-010
X301	XTAL 4.433619MHz or	FXC445LLN004
	RESONATOR XTAL 4.433619MHz 913A004433-0090200	FXC445LXGE01
X501	QUARTS CRYSTAL 12.000000MHz or	FXD126LCHE01
	XTAL 12MHz 12.000MHz	FXD126LDS002
X502	RESONATOR XTAL 32.768kHz QTF38-32.768K125P15L or	FXC323LQUA03
	XTAL DT-26 32.768kHz	FXC323LDS003
X1901	XTAL 18.432MHz or	FXD186LLN001
	RESONATOR XTAL 186 910A018432-1030300	FXD186LXGE01
Z1653	CHIP CERAMIC CAP. B K 2200pF/50V or	CHD1JK30B222
	CHIP CERAMIC CAP.(1608) X7R/K/2200pF/50V	CHD2220YF069
Z1654	CHIP CERAMIC CAP. B K 2200pF/50V or	CHD1JK30B222
	CHIP CERAMIC CAP.(1608) X7R/K/2200pF/50V	CHD2220YF069
Z1655	CHIP CERAMIC CAP. B K 2200pF/50V or	CHD1JK30B222
	CHIP CERAMIC CAP.(1608) X7R/K/2200pF/50V	CHD2220YF069
Z1656	CHIP CERAMIC CAP. B K 2200pF/50V or	CHD1JK30B222
	CHIP CERAMIC CAP.(1608) X7R/K/2200pF/50V	CHD2220YF069

DTV MODULE CBA UNIT

Ref. No.	Description	Part No.
	DTV MODULE CBA UNIT	N76ETCEA

SENSOR CBA

Ref. No.	Description	Part No.
	SENSOR CBA Consists of the following:	1VSA13519
	TRANSISTORS	
Q503	PHOTO TRANSISTOR PT204-6B-12 or	NPWZT2046B12
	PHOTO TRANSISTOR MID-32A22F	NPWZ1D32A22F
Q504	PHOTO TRANSISTOR PT204-6B-12 or	NPWZT2046B12
	PHOTO TRANSISTOR MID-32A22F	NPWZ1D32A22F

PW/SW ASSEMBLY

Ref. No.	Description	Part No.
	PW/SW ASSEMBLY Consists of the following	1VSA24789
	POWER SUPPLY CBA (PW/SW-A) FUNCTION CBA (PW/SW-B) SW CBA (PW/SW-C) REAR JACK CBA (PW/SW-D) USB CBA (PW/SW-E) POWER SW CBA (PW/SW-G)	--------- --------- --------- --------- --------- ---------

POWER SUPPLY CBA

Ref. No.	Description	Part No.
	POWER SUPPLY CBA (PW/SW-A) Consists of the following:	---------
	CAPACITORS	
C013	ELECTROLYTIC CAP. 22µF/50V M or	CEF22RENW012
	CAP ELECTROLYTIC 22µF/50V/M or	CA1J220ENE11
	ELECTROLYTIC CAP 22µF/50V/M	CE1JMZADL220
C014	ELECTROLYTIC CAP. 470µF/16V/M or	CEC471ENW016
	CAP ELECTROLYTIC 470µF/16V/M or	CA1C471ENE12
	ELECTROLYTIC CAP. 470µF/16V M	CE1CMASDL471
C020	ELECTROLYTIC CAP. 22µF/50V/M or	CEF22RENW016
	CAP ELECTROLYTIC 22µF/50V/M or	CA1J220ENE12
	ELECTROLYTIC CAP. 22µF/50V M	CE1JMASDL220
C022	ELECTROLYTIC CAP. 470µF/25V/M or	CED471ENW016
	CAP ELECTROLYTIC 470µF/25V/M or	CA1E471ENE12
	ELECTROLYTIC CAP. 470µF/25V M	CE1EMASDL471
C1001⚠	LINE ACROSS CAP. 0.047µF/250V K or	CT2E473DC016
⚠	METALIZED FILM CAP. 0.047µF/250V M or	CT2E473MS037
⚠	CAP METALIZED FILM 0.047µF/250V/K/MPX	CT2E473EUR01
C1004	CAP ELECTROLYTIC 100µF/400V/M or	CA2H101DYG12
	ELECTROLYTIC CAP. 100µF/400V M	CA2H101S6016
C1005⚠	LINE ACROSS CAP. 0.047µF/250V K or	CT2E473DC016
⚠	METALIZED FILM CAP. 0.047µF/250V M or	CT2E473MS037
⚠	CAP METALIZED FILM 0.047µF/250V/K/MPX	CT2E473EUR01
C1006⚠	WIRE CP STP-S-0.60 or	XZ40F0REN002
⚠	WIRE CP CP0.56	XZ40F0XRC001
C1007⚠	SAFTY CAP. 2200pF/250V or	CCN2EMA0E222
⚠	SAFETY CAP. 2200pF/250V or	CCN2EMP0E222
⚠	SAFETY CAP. 2200pF/250V or	CA2E222MR049
⚠	SAFTY CAP. 2200pF/250V KX or	CA2E222MR101
⚠	SAFETY CAP. 2200pF/250V	CCB222YNA010
C1029	CERAMIC CAP. B K 150pF/2KV or	CCD3DKP0B151
	CERAMIC CAP. B K 150pF/2KV	CCB151YNA006
C1030	CAP POLYESTER FILM 0.022µF/100V J or	CA2A223SER02
	POLYESTER FILM CAP. 0.022µF/100V J or	CMB223EUR001
	POLYESTER FILM CAP. (PB FREE) 0.022µF/100V J	CA2A223DT018
C1034	CAP POLYESTER FILM 0.0033µF/100V J or	CA2A332SER02
	POLYESTER FILM CAP. 0.0033µF/100V J or	CMB332EUR001
	POLYESTER FILM CAP. (PB FREE) 0.0033µF/100V J	CA2A332DT018
C1035	ELECTROLYTIC CAP. 3300µF/6.3V/M or	CEA332ENW016
	CAP ELECTROLYTIC 3300µF/6.3V/M or	CA0K332ENE12
	ELECTROLYTIC CAP. 3300µF/6.3V	CE0KMASDL332
C1036	CERAMIC CAP. B K 1000pF/1KV	CCG102PAN001
C1037	ELECTROLYTIC CAP. 470µF/16V/M or	CEC471ENW016
	CAP ELECTROLYTIC 470µF/16V/M or	CA1C471ENE12
	ELECTROLYTIC CAP. 470µF/16V M	CE1CMASDL471
C1039	ELECTROLYTIC CAP. 470µF/16V/M or	CEC471ENW016
	CAP ELECTROLYTIC 470µF/16V/M or	CA1C471ENE12
	ELECTROLYTIC CAP. 470µF/16V M	CE1CMASDL471
C1050⚠	SAFTY CAP. 1000pF/250V or	CCN2EMA0E102
⚠	SAFETY CAP. 1000pF/250V or	CA2E102MR049
⚠	SAFTY CAP. 1000pF/250V KX or	CA2E102MR101
⚠	SAFTY CAP. 1000pF/250V or	CCN2EMP0E102
⚠	SAFETY CAP. 1000pF/250V	CCB102YNA010
C1051⚠	WIRE CP STP-S-0.60 or	XZ40F0REN002
⚠	WIRE CP CP0.56	XZ40F0XRC001
C1052	ELECTROLYTIC CAP 10µF/400V/M or	CEK10RENW033
	CAP ELECTROLYTIC 10µF/400V/M or	CA2H100ENE11
	ELECTROLYTIC CAP. 10µF/400V M or	CEA1000S6003
	CAPACITOR 10µF/400V/M or	CEA100DYG007
	CAP ELE 10µF/400V/M/85	CEN100KSN002
C1053	POLYESTER FILM CAP. PEN-222K2GL7PLL or	CTK222EUR002
	METALIZED FILM CAP. 0.0022µF/400V K	CT2H222DT034
C1054	CHIP CERAMIC CAP.(1608) B K 1µF/25V or	CHD1EK30B105
	CAP CHIP 1608 X7R/K/1µF/25V	CHD1050YF066
C1055	CHIP CERAMIC CAP. B K 2200pF/50V or	CHD1JK30B222

Ref. No.	Description	Part No.
	CHIP CERAMIC CAP.(1608) X7R/K/2200pF/50V	CHD2220YF069
C1056	ELECTROLYTIC CAP. 1μF/50V/M or	CEF1R0ENW016
	CAP ELECTROLYTIC 1μF/50V/M or	CA1J1R0ENE12
	ELECTROLYTIC CAP. 1μF/50V M	CE1JMASDL1R0
C1059	CHIP CERAMIC CAP.(1608) B K 0.1μF/50V or	CHD1JK30B104
	CHIP CERAMIC CAP.(1608) X7R/K/0.1μF/50V	CHD1040YF069
C1100	CAP POLYESTER FILM 0.068μF/100V J or	CA2A683SER02
	POLYESTER FILM CAP. 0.068μF/100V J or	CMB683EUR001
	POLYESTER FILM CAP. (PB FREE) 0.068μF/ 100V J	CA2A683DT018
C1102	CERAMIC CAP. B K 470pF/1KV	CCG471PAN001
C1104	ELECTROLYTIC CAP. 3300μF/6.3V/M or	CEA332ENW016
	CAP ELECTROLYTIC 3300μF/6.3V/M or	CA0K332ENE12
	ELECTROLYTIC CAP. 3300μF/6.3V	CE0KMASDL332
C1107	ELECTROLYTIC CAP. 1000μF/6.3V/M or	CEA102ENW016
	CAP ELECTROLYTIC 1000μF/6.3V/M or	CA0K102ENE12
	ELECTROLYTIC CAP. 1000μF/6.3V M	CE0KMASDL102
C1110	ELECTROLYTIC CAP. 100μF/10V/M or	CEB101ENW016
	CAP ELECTROLYTIC 100μF/10V/M or	CA1A101ENE12
	ELECTROLYTIC CAP. 100μF/10V M	CE1AMASDL101
C1112	CHIP CERAMIC CAP.(1608) B K 1μF/25V or	CHD1EK30B105
	CAP CHIP 1608 X7R/K/1μF/25V	CHD1050YF066
C1114	ELECTROLYTIC CAP. 1000μF/6.3V/M or	CEA102ENW016
	CAP ELECTROLYTIC 1000μF/6.3V/M or	CA0K102ENE12
	ELECTROLYTIC CAP. 1000μF/6.3V M	CE0KMASDL102
C1115	ELECTROLYTIC CAP. 1000μF/6.3V/M or	CEA102ENW016
	CAP ELECTROLYTIC 1000μF/6.3V/M or	CA0K102ENE12
	ELECTROLYTIC CAP. 1000μF/6.3V M	CE0KMASDL102
C1119	ELECTROLYTIC CAP. 470μF/16V/M or	CEC471ENW016
	CAP ELECTROLYTIC 470μF/16V/M or	CA1C471ENE12
	ELECTROLYTIC CAP. 470μF/16V M	CE1CMASDL471
C1127	ELECTROLYTIC CAP. 100μF/6.3V/M or	CEA101ENW016
	CAP ELECTROLYTIC 100μF/6.3V/M or	CA0K101ENE12
	ELECTROLYTIC CAP. 100μF/6.3V M	CE0KMASDL101
C1128	ELECTROLYTIC CAP. 100μF/6.3V/M or	CEA101ENW016
	CAP ELECTROLYTIC 100μF/6.3V/M or	CA0K101ENE12
	ELECTROLYTIC CAP. 100μF/6.3V M	CE0KMASDL101
C1129	ELECTROLYTIC CAP. 100μF/6.3V/M or	CEA101ENW016
	CAP ELECTROLYTIC 100μF/6.3V/M or	CA0K101ENE12
	ELECTROLYTIC CAP. 100μF/6.3V M	CE0KMASDL101
C1130	CHIP CERAMIC CAP.(1608) B K 0.1μF/50V or	CHD1JK30B104
	CHIP CERAMIC CAP.(1608) X7R/K/0.1μF/50V	CHD1040YF069
C1131	CHIP CERAMIC CAP.(1608) B K 0.1μF/50V or	CHD1JK30B104
	CHIP CERAMIC CAP.(1608) X7R/K/0.1μF/50V	CHD1040YF069
C1151	ELECTROLYTIC CAP. 470μF/6.3V/M or	CEA471ENW016
	CAP ELECTROLYTIC 470μF/6.3V/M or	CA0K471ENE12
	ELECTROLYTIC CAP. 470μF/6.3V M	CE0KMASDL471
C1152	ELECTROLYTIC CAP. 100μF/6.3V/M or	CEA101ENW016
	CAP ELECTROLYTIC 100μF/6.3V/M or	CA0K101ENE12
	ELECTROLYTIC CAP. 100μF/6.3V M	CE0KMASDL101
C1154	CHIP CERAMIC CAP.(1608) B K 0.1μF/50V or	CHD1JK30B104
	CHIP CERAMIC CAP.(1608) X7R/K/0.1μF/50V	CHD1040YF069
C1156	ELECTROLYTIC CAP. 100μF/6.3V/M or	CEA101ENW016
	CAP ELECTROLYTIC 100μF/6.3V/M or	CA0K101ENE12
	ELECTROLYTIC CAP. 100μF/6.3V M	CE0KMASDL101
C1190	CHIP CERAMIC CAP.(1608) B K 0.01μF/50V or	CHD1JK30B103
	CHIP CERAMIC CAP.(1608) X7R/K/0.01μF/50V	CHD1030YF069
	CONNECTORS	
CN1001	FFC CONNECTOR 30PIN IMSA-9615S-30A-PP-A or	JC96J30ER007
	FFC CONNECTOR 30PIN 00 6232 030 006 800+ or	JC62G30UG026
	FMN CONNECTOR TOP 30P 30FMN-BTRK-A(LF)(SN) or	JCFNG30JG020
	CONNECTOR PRINT MES 30 S 1.0-11-30P	JC1130JSH001
CN1002	PH CONNECTOR TOP 2P B2B-PH-K-S (LF)(SN)	J3PHC02JG029
	DIODES	
D013	RECTIFIER DIODE BA158 or	NDQZ000BA158

Ref. No.	Description	Part No.
	DIODE FAST RECOVERY BA158 or	NDLZ00BA158S
	RECTIFIER DIODE BA158	NDWZ000BA158
D014	SCHOTTKY BARRIER DIODE SB390 or	NDQZ000SB390
	DIODE SCHOTTKY SB390 or	NDLZ00SB390S
	SCHOTTKY BARRIER DIODE SB390	NDWZ000SB390
D016	SCHOTTKY BARRIER DIODE SB340 or	NDQZ000SB340
	DIODE SCHOTTKY SB340 or	NDLZ00SB340S
	SCHOTTKY BARRIER DIODE SB340	NDWZ000SB340
D017	DIODE ZENER 16BSB-T26 or	NDTB016BST26
	DIODE ZENER HZS16NB2TE-EQ or	QDTBHZS16NB2
	DIODE ZENER DO-34 MTZJ16B or	NDTB00MTZJ16
	ZENER DIODE MTZJT-7716B	QDTB00MTZJ16
D018	RECTIFIER DIODE BA158 or	NDQZ000BA158
	DIODE FAST RECOVERY BA158 or	NDLZ00BA158S
	RECTIFIER DIODE BA158	NDWZ000BA158
D019	RECTIFIER DIODE FR203-B/P or	NDQZ000FR203
	DIODE FAST FR203	NDLZ00FR203S
D020	DIODE ZENER 1N4755A B0 43V or	NDLZ01N4755A
	DIODE ZENER 1ZB43BB or	NDWZ0001ZB43
	DIODE ZENER GD1ZC43-B5	NDLZ0GD1ZC43
D1001	DIODE 1N5397-B or	NDLZ001N5397
	DIODE RECTIFIER 1N5397 or	NDLZ01N5397S
	DIODE 1N5397BD	NDL1001N5397
D1002	DIODE 1N5397-B or	NDLZ001N5397
	DIODE RECTIFIER 1N5397 or	NDLZ01N5397S
	DIODE 1N5397BD	NDL1001N5397
D1003	DIODE 1N5397-B or	NDLZ001N5397
	DIODE RECTIFIER 1N5397 or	NDLZ01N5397S
	DIODE 1N5397BD	NDL1001N5397
D1004	DIODE 1N5397-B or	NDLZ001N5397
	DIODE RECTIFIER 1N5397 or	NDLZ01N5397S
	DIODE 1N5397BD	NDL1001N5397
D1006	DIODE SWITCHING 1N4148-F0021 or	NDTZ01N4148F
	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D1009	DIODE SWITCHING 1N4148-F0021 or	NDTZ01N4148F
	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D1011	DIODE ZENER 27BSB-T26 or	NDTB027BST26
	DIODE ZENER HZS27NB2TE-EQ or	QDTBHZS27NB2
	DIODE ZENER DO-34 MTZJ27B or	NDTB00MTZJ27
	ZENER DIODE MTZJT-7727B	QDTB00MTZJ27
D1022	DIODE ZENER 6V8BSB-T26 or	NDTB6R8BST26
	DIODE ZENER HZS6.8NB2TE-EQ or	QDTB0HZS6R8N
	DIODE ZENER DO-34 MTZJ6.8B or	NDTB0MTZJ6R8
	ZENER DIODE MTZJT-776.8B	QDTB0MTZJ6R8
D1023	DIODE ZENER 36BSA-T26 or	NDTA036BST26
	DIODE ZENER HZS36NB1TE-EQ or	QDTAHZS36NB1
	DIODE ZENER DO-34 MTZJ36A or	NDTA00MTZJ36
	ZENER DIODE MTZJT-7736A	QDTA00MTZJ36
D1025	DIODE SWITCHING 1N4148-F0021 or	NDTZ01N4148F
	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D1031	SCHOTTKY BARRIER DIODE SMD SK39 or	ND1Z0000SK39
	SCHOTTKY BARRIER DIODE SMD SK39	ND1Z000SK39S
D1032	SCHOTTKY BARRIER DIODE SB340 or	NDQZ000SB340
	DIODE SCHOTTKY SB340 or	NDLZ00SB340S
	SCHOTTKY BARRIER DIODE SB340	NDWZ000SB340
D1033	SCHOTTKY BARRIER DIODE SB240-B/P or	NDQZ000SB240
	DIODE SCHOTTKY SB240 or	NDLZ00SB240S
	SCHOTTKY BARRIER DIODE SB240-B/P	NDWZ000SB240
D1034	SCHOTTKY BARRIER DIODE SB240-B/P or	NDQZ000SB240
	DIODE SCHOTTKY SB240 or	NDLZ00SB240S
	SCHOTTKY BARRIER DIODE SB240-B/P	NDWZ000SB240
D1050	DIODE SWITCHING 1N4148-F0021 or	NDTZ01N4148F
	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148

Ref. No.	Description	Part No.
D1051	RECTIFIER DIODE 1N4005 or	NDQZ001N4005
	DIODE RECTIFIER 1N4005 or	NDLZ01N4005S
	RECTIFIER DIODE 1N4005	NDWZ001N4005
D1052	RECTIFIER DIODE 1N4005 or	NDQZ001N4005
	DIODE RECTIFIER 1N4005 or	NDLZ01N4005S
	RECTIFIER DIODE 1N4005	NDWZ001N4005
D1053	RECTIFIER DIODE 1N4005 or	NDQZ001N4005
	DIODE RECTIFIER 1N4005 or	NDLZ01N4005S
	RECTIFIER DIODE 1N4005	NDWZ001N4005
D1054	RECTIFIER DIODE 1N4005 or	NDQZ001N4005
	DIODE RECTIFIER 1N4005 or	NDLZ01N4005S
	RECTIFIER DIODE 1N4005	NDWZ001N4005
D1055	RECTIFIER DIODE BA159 or	NDQZ000BA159
	DIODE FAST RECOVERY BA159 or	NDLZ00BA159S
	RECTIFIER DIODE BA159	NDWZ000BA159
D1056	RECTIFIER DIODE BA159 or	NDQZ000BA159
	DIODE FAST RECOVERY BA159 or	NDLZ00BA159S
	RECTIFIER DIODE BA159	NDWZ000BA159
D1057	DIODE ZENER 27BSB-T26 or	NDTB027BST26
	DIODE ZENER HZS27NB2TE-EQ or	QDTBHZS27NB2
	DIODE ZENER DO-34 MTZJ27B or	NDTB00MTZJ27
	ZENER DIODE MTZJT-7727B	QDTB00MTZJ27
D1058	DIODE ZENER 27BSB-T26 or	NDTB027BST26
	DIODE ZENER HZS27NB2TE-EQ or	QDTBHZS27NB2
	DIODE ZENER DO-34 MTZJ27B or	NDTB00MTZJ27
	ZENER DIODE MTZJT-7727B	QDTB00MTZJ27
D1059	RECTIFIER DIODE BA159 or	NDQZ000BA159
	DIODE FAST RECOVERY BA159 or	NDLZ00BA159S
	RECTIFIER DIODE BA159	NDWZ000BA159
D1061	DIODE SWITCHING SMD 1SS400ST(SOD-523) or	ND1Z1SS400ST
	SWITCHING DIODE KDS160E-RTK/P or	ND1ZKDS160EP
	DIODE SWITCHING HSC119 TRF -E	QD1Z00HSC119
D1062	DIODE SWITCHING SMD 1SS400ST(SOD-523) or	ND1Z1SS400ST
	SWITCHING DIODE KDS160E-RTK/P or	ND1ZKDS160EP
	DIODE SWITCHING HSC119 TRF -E	QD1Z00HSC119
D1064	DIODE SWITCHING SMD 1SS400ST(SOD-523) or	ND1Z1SS400ST
	SWITCHING DIODE KDS160E-RTK/P or	ND1ZKDS160EP
	DIODE SWITCHING HSC119 TRF -E	QD1Z00HSC119
D1101	RECTIFIER DIODE FR202-B/P or	NDQZ000FR202
	DIODE FAST FR202 or	NDLZ00FR202S
	FAST RECOVERY DIODE FR202	NDWZ000FR202
D1102	DIODE ZENER 6V8BSB-T26 or	NDTB6R8BST26
	DIODE ZENER HZS6.8NB2TE-EQ or	QDTB0HZS6R8N
	DIODE ZENER DO-34 MTZJ6.8B or	NDTB0MTZJ6R8
	ZENER DIODE MTZJT-776.8B	QDTB0MTZJ6R8
D1103	SCHOTTKY BARRIER DIODE SB140 or	NDQZ000SB140
	DIODE SCHOTTKY SB140 or	NDLZ00SB140S
	SCHOTTKY BARRIER DIODE SB140	NDWZ000SB140
D1108	DIODE ZENER 18BSB-T26 or	NDTB018BST26
	DIODE ZENER HZS18NB2TE-EQ or	QDTBHZS18NB2
	DIODE ZENER DO-34 MTZJ18B or	NDTB00MTZJ18
	ZENER DIODE MTZJT-7718B	QDTB00MTZJ18
D1109	DIODE SWITCHING 1N4148-F0021 or	NDTZ01N4148F
	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D1112	WIRE CP STP-S-0.60 or	XZ40F0REN002
	WIRE CP CP0.56	XZ40F0XRC001
D1116	DIODE SWITCHING 1N4148-F0021 or	NDTZ01N4148F
	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D1122	DIODE SWITCHING 1N4148-F0021 or	NDTZ01N4148F
	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D1123	DIODE SWITCHING 1N4148-F0021 or	NDTZ01N4148F
	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133

Ref. No.	Description	Part No.
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D1127	DIODE SWITCHING SMD 1SS400ST(SOD-523) or	ND1Z1SS400ST
	SWITCHING DIODE KDS160E-RTK/P or	ND1ZKDS160EP
	DIODE SWITCHING HSC119 TRF -E	QD1Z00HSC119
D1130	DIODE SWITCHING SMD 1SS400ST(SOD-523) or	ND1Z1SS400ST
	SWITCHING DIODE KDS160E-RTK/P or	ND1ZKDS160EP
	DIODE SWITCHING HSC119 TRF -E	QD1Z00HSC119
D1133	DIODE SWITCHING SMD 1SS400ST(SOD-523) or	ND1Z1SS400ST
	SWITCHING DIODE KDS160E-RTK/P or	ND1ZKDS160EP
	DIODE SWITCHING HSC119 TRF -E	QD1Z00HSC119
D1134	DIODE SWITCHING SMD 1SS400ST(SOD-523) or	ND1Z1SS400ST
	SWITCHING DIODE KDS160E-RTK/P or	ND1ZKDS160EP
	DIODE SWITCHING HSC119 TRF -E	QD1Z00HSC119
D1135	DIODE 1N5397-B or	NDLZ001N5397
	DIODE RECTIFIER 1N5397 or	NDLZ01N5397S
	DIODE 1N5397BD	NDL1001N5397
D1136	DIODE 1N5397-B or	NDLZ001N5397
	DIODE RECTIFIER 1N5397 or	NDLZ01N5397S
	DIODE 1N5397BD	NDL1001N5397
D1137	DIODE SWITCHING SMD 1SS400ST(SOD-523) or	ND1Z1SS400ST
	SWITCHING DIODE KDS160E-RTK/P or	ND1ZKDS160EP
	DIODE SWITCHING HSC119 TRF -E	QD1Z00HSC119
D1138	DIODE SWITCHING SMD 1SS400ST(SOD-523) or	ND1Z1SS400ST
	SWITCHING DIODE KDS160E-RTK/P or	ND1ZKDS160EP
	DIODE SWITCHING HSC119 TRF -E	QD1Z00HSC119
D1139	DIODE SWITCHING SMD 1SS400ST(SOD-523) or	ND1Z1SS400ST
	SWITCHING DIODE KDS160E-RTK/P or	ND1ZKDS160EP
	DIODE SWITCHING HSC119 TRF -E	QD1Z00HSC119
D1140	DIODE ZENER 1N4755A B0 43V or	NDLZ01N4755A
	DIODE ZENER 1ZB43BB or	NDWZ0001ZB43
	DIODE ZENER GD1ZC43-B5	NDLZ0GD1ZC43
D1141	DIODE SWITCHING SMD 1SS400ST(SOD-523) or	ND1Z1SS400ST
	SWITCHING DIODE KDS160E-RTK/P or	ND1ZKDS160EP
	DIODE SWITCHING HSC119 TRF -E	QD1Z00HSC119
D1145	DIODE SWITCHING 1N4148-F0021 or	NDTZ01N4148F
	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D1146	WIRE CP STP-S-0.60 or	XZ40F0REN002
	WIRE CP CP0.56	XZ40F0XRC001
D1150	DIODE 1N5397-B or	NDLZ001N5397
	DIODE RECTIFIER 1N5397 or	NDLZ01N5397S
	DIODE 1N5397BD	NDL1001N5397
D1151	DIODE SWITCHING 1N4148-F0021 or	NDTZ01N4148F
	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D1152	SCHOTTKY BARRIER DIODE SB190 or	NDQZ000SB190
	SCHOTTKY BARRIER DIODE SB190	NDWZ000SB190
D1154	DIODE SWITCHING 1N4148-F0021 or	NDTZ01N4148F
	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D1157	DIODE SWITCHING 1N4148-F0021 or	NDTZ01N4148F
	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D1159	DIODE SWITCHING 1N4148-F0021 or	NDTZ01N4148F
	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D1160	DIODE SWITCHING SMD 1SS400ST(SOD-523) or	ND1Z1SS400ST
	SWITCHING DIODE KDS160E-RTK/P or	ND1ZKDS160EP
	DIODE SWITCHING HSC119 TRF -E	QD1Z00HSC119
D1161	DIODE SWITCHING 1N4148-F0021 or	NDTZ01N4148F
	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133

Ref. No.	Description	Part No.
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D1162	DIODE SWITCHING 1N4148-F0021 or	NDTZ01N4148F
	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D1163	DIODE SWITCHING 1N4148-F0021 or	NDTZ01N4148F
	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
	ICS	
IC1001⚠	PHOTOCOUPLER PS2561A-1-V-A(W) or	QPEWPS2561A1
⚠	PHOTOCOUPLER PS2561A-1-V-A(Q) or	QPEQPS2561A1
⚠	PHOTOCOUPLER EL817B or	NPEB000EL817
⚠	PHOTOCOUPLER LTV-817B-F	NPEB0LTV817F
IC1051	IC MIP2F10MS or	QSZBA0SMS051
	IC SWITCHING POWER SUPPLY MIP2F20MSSCF	QSCA0S0MS011
IC1052⚠	PHOTOCOUPLER PS2561A-1-V-A(W) or	QPEWPS2561A1
⚠	PHOTOCOUPLER PS2561A-1-V-A(Q) or	QPEQPS2561A1
⚠	PHOTOCOUPLER EL817B or	NPEB000EL817
⚠	PHOTOCOUPLER LTV-817B-F	NPEB0LTV817F
IC1101	IC SHUNT REGULATOR KIA431-AT/P or	NSZBA0TJY036
	IC SHUNT REGULATOR SL431A-AT or	NSZBA0TAUK01
	IC SHUNT REGULATOR AS431BZTR-E1	NSZBA0TBCD01
IC1103	IC VOLTAGE REGULATOR PQ070XFC1SZF / 4PIN or	QSZBA0RSH083
	VOLTAGE REGULATOR PQ070XF01SZH	QSZBA0SSH054
IC1104	IC VOLTAGE REGULATOR PQ070XFC1SZF / 4PIN or	QSZBA0RSH083
	VOLTAGE REGULATOR PQ070XF01SZH	QSZBA0SSH054
IC1151	IC SHUNT REGULATOR KIA431-AT/P or	NSZBA0TJY036
	IC SHUNT REGULATOR SL431A-AT or	NSZBA0TAUK01
	IC SHUNT REGULATOR AS431BZTR-E1	NSZBA0TBCD01
IC1190	IC SHUNT REGULATOR KIA431-AT/P or	NSZBA0TJY036
	IC SHUNT REGULATOR SL431A-AT or	NSZBA0TAUK01
	IC SHUNT REGULATOR AS431BZTR-E1	NSZBA0TBCD01
	COILS	
L1001	BEAD CORE ASSEMBLY E3TK3FD	1VSA22787
L1002	BEAD CORE ASSEMBLY E3TK3FD	1VSA22787
L1003⚠	COIL LINE FILTER ST0703FT20-036 53MH or	LLEG0Z0Y2025
⚠	COIL LINE FILTER 8902	LLEG0Z0KT006
L1004	BEAD CORE ASSEMBLY E3TK3FD	1VSA22787
L1005	BEAD CORE ASSEMBLY E3TK3FD	1VSA22787
L1006	BEAD CORE ASSEMBLY E3TK3FD	1VSA22787
L1007	BEAD CORE ASSEMBLY E3TK3FD	1VSA22787
L1013	POWER INDUCTORS CWKBNP-220K or	LLF2200KV002
	POWER INDUCTORS TWKBNP-220K or	LLC220KKV007
	CHOKE COIL(22μH) LHL10NB220K or	LLARKGQTU220
	POWER INDUCTORS 22μH/ST0812DR9*12-00 or	LLF2200Y2004
	POWER COIL 22μH-K or	LLF2200KV014
	POWER COIL 22μH-K	LLF2200KV015
L1014	COIL SEALED POWER INDUCTORS CWKCNP-100K or	LLF1000KV006
	COIL SEALED POWER INDUCTORS TWKCNP-100K or	LLF1000KV008
	COIL RADIAL LH L 13NB100K 10μH	LLF1000TU012
L1101	POWER INDUCTORS CWKBNP-180K or	LLF1800KV002
	POWER INDUCTORS TWKBNP-180K or	LLC180KKV007
	CHOKE COIL(18μH) LHL10NB180K or	LLARKGQTU180
	CHOKE COIL(18μH) ST0812DR9*12-007 or	LLF1800Y2003
	POWER COIL 18μH-K or	LLF1800KV014
	POWER COIL 18μH-K	LLF1800KV015
L1151	CHOKE COIL 22μH-K or	LLBD00PKV021
	CHOKE COIL 22μH-K or	LLBD00PKT002
	CHOKE COIL 22μH/ST0812DR6*8-028	LLED0P0Y2002
	TRANSISTORS	
Q1001⚠	FET 2SK3566(Q M) or	QFQZSK3566QM
⚠	FET 2SK3566(Q)	QFWZ02SK3566
Q1003	NPN TRANSISTOR 2SC5343MG-AT or	NQSG2SC5343M
	TRANSISTOR 2SC1815-GR(TE2 F T)	QQS12SC1815F
Q1051	NPN TRANSISTOR 2SC5343MG-AT or	NQSG2SC5343M
	TRANSISTOR KTC3199-GR-AT/P or	NQS4KTC3199P
	TRANSISTOR 2SC1815-GR(TE2 F T) or	QQS12SC1815F
	NPN TRANSISTOR 2SC5343M Y or	NQSY2SC5343M
	TRANSISTOR KTC3199-Y-AT/P or	NQSYKTC3199P
	TRANSISTOR 2SC1815-Y(TE2 F T)	QQSY2SC1815F
Q1100	TRANSISTOR(PB FREE) KTC2026-Y/P or	NQEYKTC2026P
	NPN TRANSISTOR STC403	NQEZ00STC403
Q1101	PNP TRANSISTOR 2SA1980 G or	NQSG02SA1980
	TRANSISTOR KTA-1266-GR-AT/P or	NQS4KTA1266P
	TRANSISTOR 2SA1015-GR(TE2 F T) or	QQS12SA1015F
	PNP TRANSISTOR 2SA1980Y-AT or	NQSY02SA1980
	TRANSISTOR KTA1266-Y-AT/P or	NQSYKTA1266P
	TRANSISTOR 2SA1015-Y(TE2 F T)	QQSY2SA1015F
Q1104	NPN TRANSISTOR 2SC5343MG-AT or	NQSG2SC5343M
	TRANSISTOR KTC3199-GR-AT/P or	NQS4KTC3199P
	TRANSISTOR 2SC1815-GR(TE2 F T) or	QQS12SC1815F
	NPN TRANSISTOR 2SC5343M Y or	NQSY2SC5343M
	TRANSISTOR KTC3199-Y-AT/P or	NQSYKTC3199P
	TRANSISTOR 2SC1815-Y(TE2 F T)	QQSY2SC1815F
Q1106	NPN TRANSISTOR 2SC5344 Y or	NQSY02SC5344
	TRANSISTOR KTC3203-Y-AT/P or	NQSYKTC3203P
	TRANSISTOR 2SC2120-Y(TE2 F T) or	QQSY2SC2120F
	NPN TRANSISTOR 2SC5344O-AT or	NQS002SC5344
	TRANSISTOR KTC3203-O-AT/P or	NQS0KTC3203P
	TRANSISTOR 2SC2120-O(TE2 F T)	QQS02SC2120F
Q1107	NPN TRANSISTOR RES-IN SRC1203MAT or	NQSZSRC1203M
	NPN TRANSISTOR KRC103M-AT/P or	NQSZKRC103MP
	NPN TRANSISTOR RES.-IN RN1203(TE4 F T)	QQSZ0RN1203F
Q1109	NPN TRANSISTOR RES-IN SRC1203MAT or	NQSZSRC1203M
	NPN TRANSISTOR KRC103M-AT/P or	NQSZKRC103MP
	NPN TRANSISTOR RES.-IN RN1203(TE4 F T)	QQSZ0RN1203F
Q1112	NPN TRANSISTOR 2SC5344 Y or	NQSY02SC5344
	TRANSISTOR KTC3203-Y-AT/P or	NQSYKTC3203P
	TRANSISTOR 2SC2120-Y(TE2 F T) or	QQSY2SC2120F
	NPN TRANSISTOR 2SC5344O-AT or	NQS002SC5344
	TRANSISTOR KTC3203-O-AT/P or	NQS0KTC3203P
	TRANSISTOR 2SC2120-O(TE2 F T)	QQS02SC2120F
Q1114	PNP TRANSISTOR 2SA1980MG-AT or	NQSG2SA1980M
	TRANSISTOR KTA1267-GR-AT/P or	NQS1KTA1267P
	PNP TRANSISTOR 2SA1980M Y or	NQSY2SA1980M
	TRANSISTOR KTA1267-Y-AT/P	NQSYKTA1267P
Q1119	NPN TRANSISTOR STD1862LY-AT or	NQSYSTD1862L
	TRANSISTOR KTC3205-Y-AT/P	NQSYKTC3205P
	RESISTORS	
R020	CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
	RES CHIP 1608 1/10W J 0 Ω	RRXA000YF002
R1001⚠	CARBON RES. 1/2W K 5.6M Ω or	RCX2565FS001
⚠	GLASS GLAZE RES. 1/2W J 5.6M Ω	RXX2565MGL01
R1003	CEMENT RESISTOR 3W K 1.5 Ω or	RW031R5PAK10
	CEMENT RES 3W K 1.5 Ω	RW031R5PG007
R1004	CEMENT RESISTOR 5W J 1.2 Ω H 10MM	RW051R2PAK10
R1005	RES CARBON FILM 1/4W J 560k Ω	RCX4564FS002
R1006	RES CARBON FILM 1/4W J 680k Ω	RCX4684FS002
R1007	RES CARBON FILM 1/4W J 680k Ω	RCX4684FS002
R1008	RES CARBON FILM 1/4W J 820k Ω	RCX4824FS002
R1033	CARBON RES. 1/4W J 220 Ω or	RCX4JATZ0221
	RES CARBON FILM 1/4W J 220 Ω	RCJ221PAK001
R1036	CARBON RES. 1/4W J 270 Ω or	RCX4JATZ0271
	RES CARBON FILM 1/4W J 270 Ω	RCJ271PAK001
R1037	CARBON RES. 1/4W J 220 Ω or	RCX4JATZ0221
	RES CARBON FILM 1/4W J 220 Ω	RCJ221PAK001
R1039	CARBON RES. 1/4W J 2.2k Ω or	RCX4JATZ0222
	RES CARBON FILM 1/4W J 2.2k Ω	RCJ222PAK001
R1043	CARBON RES. 1/4W J 2.2k Ω or	RCX4JATZ0222
	RES CARBON FILM 1/4W J 2.2k Ω	RCJ222PAK001
R1051	CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103

Ref. No.	Description	Part No.
	RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R1052	CHIP RES. 1/10W J 1.8k Ω or	RRXAJR5Z0182
	RES CHIP 1608 1/10W J 1.8k Ω	RRXA182YF002
R1053	CARBON RES. 1/4W J 100k Ω or	RCX4JATZ0104
	RES CARBON FILM 1/4W J 100k Ω or	RCJ104PAK001
	RES CARBON FILM 1/4W J 100k Ω	RCX4104FS002
R1054	METAL RESISTER. 2W J 2.7 Ω or	RN022R7ZU001
	METALOXIDE RES 2W J 2.7 Ω	RNJ2R7PAK002
R1055	CARBON RES. 1/4W J 100k Ω or	RCX4JATZ0104
	RES CARBON FILM 1/4W J 100k Ω or	RCJ104PAK001
	RES CARBON FILM 1/4W J 100k Ω	RCX4104FS002
R1056	CHIP RES. 1/10W J 22 Ω or	RRXAJR5Z0220
	RES CHIP 1608 1/10W J 22 Ω	RRXA220YF002
R1057	CHIP RES. 1/10W J 470k Ω or	RRXAJR5Z0474
	RES CHIP 1608 1/10W J 470k Ω	RRXA474YF002
R1058	CARBON RES. 1/6W J 15k Ω or	RCX6JATZ0153
	CARBON RES. 1/4W J 15k Ω or	RCX4JATZ0153
	RES CARBON FILM 1/4W J 15k Ω	RCJ153PAK001
R1097	CHIP RES. 1/10W J 390 Ω or	RRXAJR5Z0391
	RES CHIP 1608 1/10W J 390 Ω	RRXA391YF002
R1099	CHIP RES. 1/10W J 8.2k Ω or	RRXAJR5Z0822
	RES CHIP 1608 1/10W J 8.2k Ω	RRXA822YF002
R1101	CHIP RES. 1/10W J 4.7k Ω or	RRXAJR5Z0472
	RES CHIP 1608 1/10W J 4.7k Ω	RRXA472YF002
R1102	CHIP RES. 1/10W F 2k Ω or	RRXAFR5H2001
	CHIP RES. 1/10W F 2k Ω or	RRXAFR5Z2001
	RES CHIP 1608 1/10W F 2.00k Ω	RTW2001YF002
R1106	CHIP RES. 1/10W J 1 Ω or	RRXAJR5Z01R0
	RES CHIP 1608 1/10W J 1 Ω	RRXA1R0YF002
R1112	CHIP RES. 1/10W F 300 Ω or	RRXAFR5H3000
	CHIP RES.(1608) 1/10W F 300 Ω or	RRXAFR5Z3000
	RES CHIP 1608 1/10W F 300 Ω	RTW3000YF002
R1113	CHIP RES. 1/10W F 1.0k Ω or	RRXAFR5H1001
	CHIP RES. 1/10W F 1k Ω or	RRXAFR5Z1001
	RES CHIP 1608 1/10W F 1.00k Ω	RTW1001YF002
R1114	CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
	RES CHIP 1608 1/10W J 0 Ω	RRXA000YF002
R1115	CHIP RES. 1/10W F 1.0k Ω or	RRXAFR5H1001
	CHIP RES. 1/10W F 1k Ω or	RRXAFR5Z1001
	RES CHIP 1608 1/10W F 1.00k Ω	RTW1001YF002
R1118	METAL OXIDE RES. 3W J 1.5k Ω or	RN03152ZU001
	METALOXIDE RES 3W J 1.5K Ω	RNJ152PAK003
R1119	CHIP RES. 1/10W J 220k Ω or	RRXAJR5Z0224
	RES CHIP 1608 1/10W J 220k Ω	RRXA224YF002
R1127	CHIP RES. 1/10W J 47k Ω or	RRXAJR5Z0473
	RES CHIP 1608 1/10W J 47k Ω	RRXA473YF002
R1133	CHIP RES. 1/10W J 47k Ω or	RRXAJR5Z0473
	RES CHIP 1608 1/10W J 47k Ω	RRXA473YF002
R1136	CHIP RES. 1/10W J 4.7k Ω or	RRXAJR5Z0472
	RES CHIP 1608 1/10W J 4.7k Ω	RRXA472YF002
R1137	CARBON RES. 1/4W J 560 Ω or	RCX4JATZ0561
	RES CARBON FILM 1/4W J 560 Ω	RCJ561PAK001
R1140	CARBON RES. 1/4W J 1k Ω or	RCX4JATZ0102
	RES CARBON FILM 1/4W J 1.0k Ω	RCJ102PAK001
R1141	CARBON RES. 1/4W J 2.7k Ω or	RCX4JATZ0272
	RES CARBON FILM 1/4W J 2.7k Ω	RCJ272PAK001
R1142	CHIP RES. 1/10W J 1.1k Ω or	RRXAJR5Z0112
	RES CHIP 1608 1/10W J 1.1k Ω	RRXA112YF002
R1143	CHIP RES. 1/10W J 2.2k Ω or	RRXAJR5Z0222
	RES CHIP 1608 1/10W J 2.2k Ω	RRXA222YF002
R1144	CHIP RES. 1/10W F 10k Ω or	RRXAFR5H1002
	CHIP RES. 1/10W F 10k Ω or	RRXAFR5Z1002
	RES CHIP 1608 1/10W F 10.0k Ω	RTW1002YF002
R1145	CHIP RES. 1/10W F 3.9k Ω or	RRXAFR5H3901
	CHIP RES.(1608) 1/10W F 3.9k Ω or	RRXAFR5Z3901
	RES CHIP 1608 1/10W F 3.90k Ω	RTW3901YF002
R1146	CHIP RES. 1/10W F 15k Ω or	RRXAFR5H1502
	CHIP RES. 1/10W F 15k Ω or	RRXAFR5Z1502
	RES CHIP 1608 1/10W F 15.0k Ω	RTW1502YF002
R1147	CHIP RES. 1/10W F 10k Ω or	RRXAFR5H1002
	CHIP RES. 1/10W F 10k Ω or	RRXAFR5Z1002
	RES CHIP 1608 1/10W F 10.0k Ω	RTW1002YF002
R1152	CHIP RES. 1/10W F 680 Ω or	RRXAFR5H6800
	CHIP RES.(1608) 1/10W F 680 Ω or	RRXAFR5Z6800
	RES CHIP 1608 1/10W F 680 Ω	RTW6800YF002
R1153	CHIP RES. 1/10W F 1.5k Ω or	RRXAFR5H1501
	CHIP RES. 1/10W F 1.5k Ω or	RRXAFR5Z1501
	RES CHIP 1608 1/10W F 1.50k Ω	RTW1501YF002
R1154	CHIP RES. 1/10W J 4.7k Ω or	RRXAJR5Z0472
	RES CHIP 1608 1/10W J 4.7k Ω	RRXA472YF002
R1155	CHIP RES. 1/10W J 4.7k Ω or	RRXAJR5Z0472
	RES CHIP 1608 1/10W J 4.7k Ω	RRXA472YF002
R1157	CARBON RES. 1/6W J 10k Ω or	RCX6JATZ0103
	CARBON RES. 1/4W J 10k Ω or	RCX4JATZ0103
	RES CARBON FILM 1/4W J 10k Ω	RCJ103PAK001
R1160	CHIP RES. 1/10W J 220k Ω or	RRXAJR5Z0224
	RES CHIP 1608 1/10W J 220k Ω	RRXA224YF002
R1161	RES CARBON FILM 1/4W J 820k Ω	RCX4824FS002
R1163	CARBON RES. 1/4W J 220 Ω or	RCX4JATZ0221
	RES CARBON FILM 1/4W J 220 Ω	RCJ221PAK001
R1164	CARBON RES. 1/4W J 220 Ω or	RCX4JATZ0221
	RES CARBON FILM 1/4W J 220 Ω	RCJ221PAK001
R1166	CHIP RES. 1/10W J 47k Ω or	RRXAJR5Z0473
	RES CHIP 1608 1/10W J 47k Ω	RRXA473YF002
R1167	CHIP RES. 1/10W J 5.6k Ω or	RRXAJR5Z0562
	RES CHIP 1608 1/10W J 5.6k Ω	RRXA562YF002
R1171	CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
	RES CHIP 1608 1/10W J 0 Ω	RRXA000YF002
R1178	CHIP RES. 1/10W J 1.1k Ω or	RRXAJR5Z0112
	RES CHIP 1608 1/10W J 1.1k Ω	RRXA112YF002
R1181	CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
	RES CHIP 1608 1/10W J 0 Ω	RRXA000YF002
R1182	CHIP RES. 1/10W F 100k Ω or	RRXAFR5H1003
	CHIP RES. 1/10W F 100k Ω or	RRXAFR5Z1003
	RES CHIP 1608 1/10W F 100k Ω	RTW1003YF002
R1183	CARBON RES. 1/4W J 22 Ω or	RCX4JATZ0220
	RES CARBON FILM 1/4W J 22 Ω	RCJ220PAK001
R1184	CHIP RES. 1/10W J 470 Ω or	RRXAJR5Z0471
	RES CHIP 1608 1/10W J 470 Ω	RRXA471YF002
R1185	CHIP RES. 1/10W J 3.3k Ω or	RRXAJR5Z0332
	RES CHIP 1608 1/10W J 3.3k Ω	RRXA332YF002
R1186	CHIP RES. 1/10W J 4.7k Ω or	RRXAJR5Z0472
	RES CHIP 1608 1/10W J 4.7k Ω	RRXA472YF002
R1187	CHIP RES. 1/10W F 100k Ω or	RRXAFR5H1003
	CHIP RES. 1/10W F 100k Ω or	RRXAFR5Z1003
	RES CHIP 1608 1/10W F 100k Ω	RTW1003YF002
R1190	CARBON RES. 1/4W J 820 Ω or	RCX4JATZ0821
	RES CARBON FILM 1/4W J 820 Ω	RCJ821PAK001
R1191	CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
	RES CHIP 1608 1/10W J 0 Ω	RRXA000YF002
R1193	CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
	RES CHIP 1608 1/10W J 0 Ω	RRXA000YF002
R1194	CHIP RES. 1/10W F 2k Ω or	RRXAFR5H2001
	CHIP RES. 1/10W F 2k Ω or	RRXAFR5Z2001
	RES CHIP 1608 1/10W F 2.00k Ω	RTW2001YF002
R1195	CHIP RES.(1608) 1/10W F 82.0 Ω or	RRXAFR5H82R0
	CHIP RES.(1608) 1/10W F 82 Ω or	RRXAFR5Z82R0
	RES CHIP 1608 1/10W F 82 Ω	RTW82R0YF002
R1196	CHIP RES. 1/10W F 2k Ω or	RRXAFR5H2001
	CHIP RES. 1/10W F 2k Ω or	RRXAFR5Z2001
	RES CHIP 1608 1/10W F 2.00k Ω	RTW2001YF002
MISCELLANEOUS		
AC1001⚠	AC CORD PE8G2CG9G0AB05 or	WAE0172LW011
⚠	AC CORD WITH A GND WIRE L0A0280-010 or	WAE0172LTE08

Ref. No.	Description	Part No.
⚠	AC CORD AS0904182	WAE172ZHN003
B5A	HEAT SINK E2A00JD	1VM424636
CL1001	CONNECTOR FFC 34P IMSA-9615S-34A-PP-A or	JC96J34ER007
	CONNECTOR FMN TOP 34P 34FMN-BTRK-A(LF)(SN) or	JCFNG34JG020
	CONNECTOR PRINT MES 34 S 1.0-11-34P	JC1134JSH001
F1001⚠	FUSE TIME RAG FIH 250V 2.5A or	PDGJBB0NG252
⚠	FUSE TIME RAG TSC2.5A250VSVDEUC3CP	PDGAAB0W3252
FH1001	FUSE HOLDER MSF-015 LF (B110)	XH01Z00LY002
FH1002	FUSE HOLDER MSF-015 LF (B110)	XH01Z00LY002
JP1014	WIRE CP STP-S-0.60 or	XZ40F0REN002
	WIRE CP CP0.56	XZ40F0XRC001
L8	SCREW C-TIGHT M3X6 BIND HEAD+	GBJC3060
RL1001⚠	RELAY ALKP329	MRLEC05MS001
T1001⚠	TRANS POWER 9723 or	LTT3PE0KT063
⚠	TRANS POWER BCK-35-0686 or	LTT3PE0XB055
⚠	TRANS POWER BCK-35AT	LTT3PEMEK005
T1051⚠	TRANS BCK-16-033T or	LTT1PE0XB002
⚠	TRANS POWER BCK-1909	LTT1PEMEK001
W1	WIRE ASSEMBLY 34PIN FFC WX1E3N00-001	WX1E3N00-001
W4	WIRE ASSEMBLY 30PIN FFC WX1E3TK3-001	WX1E3TK3-001
W7	WIRE ASSEMBLY 15PIN FFC WX1E3TK0-007	WX1E3TK0-007
W13	WIRE ASSEMBLY 2PIN WX1E3TK3-002	WX1E3TK3-002

FUNCTION CBA

Ref. No.	Description	Part No.
	FUNCTION CBA (PW/SW-B) Consists of the following:	----------
	CAPACITORS	
C3605	CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V or	CHD1JZ30F104
	CHIP CERAMIC CAP.(1608) Y5V/Z/0.1μF/50V	CHD1040YF102
C3606	CHIP CERAMIC CAP.(1608) F Z 0.1μF/25V or	CHD1EZ30F104
	CHIP CERAMIC CAP.(1608) Y5V/Z/0.1μF/25V	CHD1040YF098
	CONNECTORS	
CN3011	FFC CONNECTOR 15P IMSA-9615S-15A-PP-A or	JC96J15ER007
	CONNECTOR FPC 15P 00 6232 015 006 800+ or	JC62G15UG026
	FMN CONNECTOR TOP 15P 15FMN-BTK-A(LF)(SN) or	JCFNG15JG019
	CONNECTOR PRINT MES 15 S 1.0-11-15P	JC1115JSH001
CN3605	PH CONNECTOR TOP 2P B2B-PH-K-S (LF)(SN)	J3PHC02JG029
	DIODES	
D3003	LED(GREEN) LTL-1CHGE or	NPQZLTL1CHGE
	LED(GREEN) 204-10GD/S957	NPQZ10GDS957
D3005	LED(AMBER YELLOW) LTL1CHKYKNN	NPQZ1CHKYKNN
D3014	DIODE ZENER 5V6BSB-T26 or	NDTB5R6BST26
	DIODE ZENER HZS5.6NB2TE-EQ or	QDTB0HZS5R6N
	DIODE ZENER DO-34 MTZJ5.6B or	NDTB0MTZJ5R6
	ZENER DIODE MTZJT-775.6B	QDTB0MTZJ5R6
	ICS	
Either IC3607 or IC3608 is used.		
IC3607	IC USB POWER SWITCH STMPS2141MTR	NSCA0T0SS006
IC3608	HIGH-SIDE SWITCH IC BD2225G-TR	QSCA0T0RM010
	RESISTORS	
R3004	CARBON RES. 1/6W J 270 Ω or	RCX6JATZ0271
	CARBON RES. 1/4W J 270 Ω or	RCX4JATZ0271
	RES CARBON FILM 1/4W J 270 Ω	RCJ271PAK001
R3007	CHIP RES. 1/10W J 1.8k Ω or	RRXAJR5Z0182
	RES CHIP 1608 1/10W J 1.8k Ω	RRXA182YF002
R3011	CARBON RES. 1/6W J 680 Ω or	RCX6JATZ0681
	CARBON RES. 1/4W J 680 Ω or	RCX4JATZ0681
	RES CARBON FILM 1/4W J 680 Ω	RCJ681PAK001
R3013	CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
	RES CHIP 1608 1/10W J 0 Ω	RRXA000YF002
R3014	CHIP RES. 1/10W J 1k Ω or	RRXAJR5Z0102
	RES CHIP 1608 1/10W J 1.0k Ω	RRXA102YF002
R3015	CHIP RES. 1/10W J 1.2k Ω or	RRXAJR5Z0122
	RES CHIP 1608 1/10W J 1.2k Ω	RRXA122YF002
R3016	CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
	RES CHIP 1608 1/10W J 0 Ω	RRXA000YF002
R3019	CHIP RES. 1/10W J 1.5k Ω or	RRXAJR5Z0152
	RES CHIP 1608 1/10W J 1.5k Ω	RRXA152YF002
	SWITCHES	
SW3002	TACT SWITCH SKQSAF001A or	SST0101AL041
	TACT SWITCH KSM0614B or	SST0101HH013
	TACT SWITCH TC-1104(H=9.5)	SST0101DNG01
SW3004	TACT SWITCH SKQSAF001A or	SST0101AL041
	TACT SWITCH KSM0614B or	SST0101HH013
	TACT SWITCH TC-1104(H=9.5)	SST0101DNG01
SW3006	TACT SWITCH SKQSAF001A or	SST0101AL041
	TACT SWITCH KSM0614B or	SST0101HH013
	TACT SWITCH TC-1104(H=9.5)	SST0101DNG01
SW3402	TACT SWITCH SKQSAF001A or	SST0101AL041
	TACT SWITCH KSM0614B or	SST0101HH013
	TACT SWITCH TC-1104(H=9.5)	SST0101DNG01
	MISCELLANEOUS	
JC9	CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
	RES CHIP 1608 1/10W J 0 Ω	RRXA000YF002
W9	PARALLEL WIRE 3P WX1E9TK0-004	WX1E9TK0-004
W12	WIRE ASSEMBLY 4PIN WX1E3TK0-008	WX1E3TK0-008

SW CBA

Ref. No.	Description	Part No.
	SW CBA (PW/SW-C) Consists of the following:	----------
	RESISTORS	
R3020	CHIP RES. 1/10W J 2.2k Ω or	RRXAJR5Z0222
	RES CHIP 1608 1/10W J 2.2k Ω	RRXA222YF002
R3681	CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
	RES CHIP 1608 1/10W J 0 Ω	RRXA000YF002
	SWITCHES	
SW3009	TACT SWITCH SKQSAF001A or	SST0101AL041
	TACT SWITCH KSM0614B or	SST0101HH013
	TACT SWITCH TC-1104(H=9.5)	SST0101DNG01
SW3010	TACT SWITCH SKQSAF001A or	SST0101AL041
	TACT SWITCH KSM0614B or	SST0101HH013
	TACT SWITCH TC-1104(H=9.5)	SST0101DNG01

REAR JACK CBA

Ref. No.	Description	Part No.
	REAR JACK CBA (PW/SW-D) Consists of the following:	----------
	CAPACITORS	
C2001	ELECTROLYTIC CAP. 100μF/16V/M or	CEC101ENW016
	CAP ELECTROLYTIC 100μF/16V/M or	CA1C101ENE12
	ELECTROLYTIC CAP. 100μF/16V M	CE1CMASDL101
C2002	ELECTROLYTIC CAP. 470μF/6.3V/M or	CEA471ENW016
	CAP ELECTROLYTIC 470μF/6.3V/M or	CA0K471ENE12
	ELECTROLYTIC CAP. 470μF/6.3V M	CE0KMASDL471
C2003	CHIP CERAMIC CAP. B K 2200pF/50V or	CHD1JK30B222
	CHIP CERAMIC CAP.(1608) X7R/K/2200pF/50V	CHD2220YF069
C2008	CHIP CERAMIC CAP.(1608) B K 1000pF/50V or	CHD1JK30B102
	CHIP CERAMIC CAP.(1608) X7R/K/1000pF/50V	CHD1020YF069
C2009	ELECTROLYTIC CAP. 1μF/50V/M or	CEF1R0ENW016
	CAP ELECTROLYTIC 1μF/50V/M or	CA1J1R0ENE12
	ELECTROLYTIC CAP. 1μF/50V M	CE1JMASDL1R0
C2010	ELECTROLYTIC CAP. 1μF/50V/M or	CEF1R0ENW016
	CAP ELECTROLYTIC 1μF/50V/M or	CA1J1R0ENE12
	ELECTROLYTIC CAP. 1μF/50V M	CE1JMASDL1R0
C2011	CHIP CERAMIC CAP.(1608) B K 1000pF/50V or	CHD1JK30B102
	CHIP CERAMIC CAP.(1608) X7R/K/1000pF/50V	CHD1020YF069

Ref. No.	Description	Part No.
C2012	ELECTROLYTIC CAP. 1µF/50V/M or	CEF1R0ENW016
	CAP ELECTROLYTIC 1µF/50V/M or	CA1J1R0ENE12
	ELECTROLYTIC CAP. 1µF/50V M	CE1JMASDL1R0
C2013	CHIP CERAMIC CAP.(1608) B K 1000pF/50V or	CHD1JK30B102
	CHIP CERAMIC CAP.(1608) X7R/K/1000pF/50V	CHD1020YF069
DIODES		
D2001	DIODE ZENER 11BSA-T26 or	NDTA011BST26
	DIODE ZENER HZS11NB1TE-EQ or	QDTAHZS11NB1
	DIODE ZENER DO-34 MTZJ11A or	NDTA00MTZJ11
	ZENER DIODE MTZJT-7711A	QDTA00MTZJ11
D2002	DIODE ZENER 11BSA-T26 or	NDTA011BST26
	DIODE ZENER HZS11NB1TE-EQ or	QDTAHZS11NB1
	DIODE ZENER DO-34 MTZJ11A or	NDTA00MTZJ11
	ZENER DIODE MTZJT-7711A	QDTA00MTZJ11
D2003	DIODE ZENER 11BSA-T26 or	NDTA011BST26
	DIODE ZENER HZS11NB1TE-EQ or	QDTAHZS11NB1
	DIODE ZENER DO-34 MTZJ11A or	NDTA00MTZJ11
	ZENER DIODE MTZJT-7711A	QDTA00MTZJ11
D2004	DIODE ZENER 11BSA-T26 or	NDTA011BST26
	DIODE ZENER HZS11NB1TE-EQ or	QDTAHZS11NB1
	DIODE ZENER DO-34 MTZJ11A or	NDTA00MTZJ11
	ZENER DIODE MTZJT-7711A	QDTA00MTZJ11
D2005	DIODE ZENER 11BSA-T26 or	NDTA011BST26
	DIODE ZENER HZS11NB1TE-EQ or	QDTAHZS11NB1
	DIODE ZENER DO-34 MTZJ11A or	NDTA00MTZJ11
	ZENER DIODE MTZJT-7711A	QDTA00MTZJ11
D2006	DIODE ZENER 11BSA-T26 or	NDTA011BST26
	DIODE ZENER HZS11NB1TE-EQ or	QDTAHZS11NB1
	DIODE ZENER DO-34 MTZJ11A or	NDTA00MTZJ11
	ZENER DIODE MTZJT-7711A	QDTA00MTZJ11
D2007	DIODE ZENER 11BSA-T26 or	NDTA011BST26
	DIODE ZENER HZS11NB1TE-EQ or	QDTAHZS11NB1
	DIODE ZENER DO-34 MTZJ11A or	NDTA00MTZJ11
	ZENER DIODE MTZJT-7711A	QDTA00MTZJ11
D2008	DIODE ZENER 11BSA-T26 or	NDTA011BST26
	DIODE ZENER HZS11NB1TE-EQ or	QDTAHZS11NB1
	DIODE ZENER DO-34 MTZJ11A or	NDTA00MTZJ11
	ZENER DIODE MTZJT-7711A	QDTA00MTZJ11
D2009	DIODE ZENER 11BSA-T26 or	NDTA011BST26
	DIODE ZENER HZS11NB1TE-EQ or	QDTAHZS11NB1
	DIODE ZENER DO-34 MTZJ11A or	NDTA00MTZJ11
	ZENER DIODE MTZJT-7711A	QDTA00MTZJ11
D2010	DIODE ZENER 11BSA-T26 or	NDTA011BST26
	DIODE ZENER HZS11NB1TE-EQ or	QDTAHZS11NB1
	DIODE ZENER DO-34 MTZJ11A or	NDTA00MTZJ11
	ZENER DIODE MTZJT-7711A	QDTA00MTZJ11
COIL		
L2003	BEAD CORE ASSEMBLY E3TK3FD	1VSA22786
TRANSISTORS		
Q2001	PNP TRANSISTOR 2SA1980 G or	NQSG02SA1980
	TRANSISTOR KTA-1266-GR-AT/P or	NQS4KTA1266P
	TRANSISTOR 2SA1015-GR(TE2 F T) or	QQS12SA1015F
	PNP TRANSISTOR ST 2SA1266G	NQSGT2SA1266
Q2002	NPN TRANSISTOR 2SC5343MG-AT or	NQSG2SC5343M
	TRANSISTOR KTC3199-GR-AT/P or	NQS4KTC3199P
	TRANSISTOR 2SC1815-GR(TE2 F T) or	QQS12SC1815F
	NPN TRANSISTOR 2SC5343M Y or	NQSY2SC5343M
	TRANSISTOR KTC3199-Y-AT/P or	NQSYKTC3199P
	TRANSISTOR 2SC1815-Y(TE2 F T) or	QQSY2SC1815F
	NPN TRANSISTOR ST 2SC3199G	NQSGT2SC3199
Q2003	NPN TRANSISTOR 2SC5343MG-AT or	NQSG2SC5343M
	TRANSISTOR KTC3199-GR-AT/P or	NQS4KTC3199P
	TRANSISTOR 2SC1815-GR(TE2 F T) or	QQS12SC1815F
	NPN TRANSISTOR 2SC5343M Y or	NQSY2SC5343M
	TRANSISTOR KTC3199-Y-AT/P or	NQSYKTC3199P
	TRANSISTOR 2SC1815-Y(TE2 F T) or	QQSY2SC1815F
	NPN TRANSISTOR ST 2SC3199G	NQSGT2SC3199

Ref. No.	Description	Part No.
RESISTORS		
R2001	CARBON RES. 1/4W J 680 Ω or	RCX4JATZ0681
	RES CARBON FILM 1/4W J 680 Ω	RCJ681PAK001
R2002	CHIP RES. 1/10W J 220 Ω or	RRXAJR5Z0221
	RES CHIP 1608 1/10W J 220 Ω	RRXA221YF002
R2003	CARBON RES. 1/4W J 75 Ω or	RCX4JATZ0750
	RES CARBON FILM 1/4W J 75 Ω	RCJ750PAK001
R2005	CARBON RES. 1/4W J 820 Ω or	RCX4JATZ0821
	RES CARBON FILM 1/4W J 820 Ω	RCJ821PAK001
R2006	CARBON RES. 1/4W J 220 Ω or	RCX4JATZ0221
	RES CARBON FILM 1/4W J 220 Ω	RCJ221PAK001
R2007	CARBON RES. 1/4W J 820 Ω or	RCX4JATZ0821
	RES CARBON FILM 1/4W J 820 Ω	RCJ821PAK001
R2008	CARBON RES. 1/4W J 220 Ω or	RCX4JATZ0221
	RES CARBON FILM 1/4W J 220 Ω	RCJ221PAK001
R2009	CHIP RES. 1/10W J 75 Ω or	RRXAJR5Z0750
	RES CHIP 1608 1/10W J 75 Ω	RRXA750YF002
R2010	CHIP RES. 1/10W J 75 Ω or	RRXAJR5Z0750
	RES CHIP 1608 1/10W J 75 Ω	RRXA750YF002
R2011	CHIP RES. 1/10W J 75 Ω or	RRXAJR5Z0750
	RES CHIP 1608 1/10W J 75 Ω	RRXA750YF002
R2012	CHIP RES. 1/10W J 1k Ω or	RRXAJR5Z0102
	RES CHIP 1608 1/10W J 1.0k Ω	RRXA102YF002
R2013	CHIP RES. 1/10W J 1k Ω or	RRXAJR5Z0102
	RES CHIP 1608 1/10W J 1.0k Ω	RRXA102YF002
R2014	CHIP RES. 1/10W J 75 Ω or	RRXAJR5Z0750
	RES CHIP 1608 1/10W J 75 Ω	RRXA750YF002
MISCELLANEOUS		
B24	21P EARTH PLATE E7B20ED	1VM423185
JK2001	RGB CONNECTOR MRC-021V-03 ABS(B11	JXGL210LY006
W10	FLAT CABLE 15P AWG26#2651/P2.0/70	WX1E7B20-002
Z2004	CHIP CERAMIC CAP. B K 2200pF/50V or	CHD1JK30B222
	CHIP CERAMIC CAP.(1608) X7R/K/2200pF/50V	CHD2220YF069
Z2005	CHIP CERAMIC CAP. B K 2200pF/50V or	CHD1JK30B222
	CHIP CERAMIC CAP.(1608) X7R/K/2200pF/50V	CHD2220YF069
Z2006	CHIP CERAMIC CAP. B K 2200pF/50V or	CHD1JK30B222
	CHIP CERAMIC CAP.(1608) X7R/K/2200pF/50V	CHD2220YF069
Z2007	CHIP CERAMIC CAP. B K 2200pF/50V or	CHD1JK30B222
	CHIP CERAMIC CAP.(1608) X7R/K/2200pF/50V	CHD2220YF069

USB CBA

Ref. No.	Description	Part No.
	USB CBA (PW/SW-E) Consists of the following:	---
CONNECTORS		
CN6001	PH CONNECTOR SIDE 4P S4B-PH-K-S(LF)(SN)	J3PHC04JG030
CN6002	USB CONNECTOR UB1NA046-01-03-01 or	JBUS04DNU002
	CONNECTOR KAKU MES UJAP03B025-11-3 or	JBUA040WJ001
	CONNECTOR KAKU MES 1734081-1	JB17040AP003
RESISTORS		
R6012	CHIP RES. 1/10W J 15k Ω or	RRXAJR5Z0153
	RES CHIP 1608 1/10W J 15k Ω	RRXA153YF002
R6013	CHIP RES. 1/10W J 15k Ω or	RRXAJR5Z0153
	RES CHIP 1608 1/10W J 15k Ω	RRXA153YF002
MISCELLANEOUS		
F6001	CHIP FUSE FCC16102ADTP	PDDAFC0KE102

POWER SW CBA

Ref. No.	Description	Part No.
	POWER SW CBA (PW/SW-G) Consists of the following:	---
DIODES		
D1602	LED(RED) LTL-4222 or	NPQZ0LTL4222
	LED(RED) 1254IT	NPQZ0012541T

Ref. No.	Description	Part No.
	SWITCHES	
SW675	TACT SWITCH SKQSAF001A or	SST0101AL041
	TACT SWITCH KSM0614B or	SST0101HH013
	TACT SWITCH TC-1104(H=9.5)	SST0101DNG01
	MISCELLANEOUS	
W6	PARALLEL WIRE 4P AWG26#2651/ 126MM	WX1E4340-006

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